G 12 FOCUS :

- make final setting to red nos. decreasing
- for centre to violet, correct by increasing red nos.
- decreasing temp. causes centre to violet (i.e → counts)
- 50 div. = 21 microns on focus plate → DIFFERENCE BETWEEN CENTRE & OUTSIDE
  = physical movement of camera ~ 150 MICRONS

- typical focus: 90-R (counts)
  5-R (smurs)

3

Dome Temp. ....

Focus ....

Dome Temp. ....

Hour Angle End	De

Dome Temp. ..... Transparency Conditions .....

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
								David Dunlap observatory	
								74" logbook	
								vol 44	
								Plate no. 35716 - 36769	
								Jan 72 - Nov 72	

5

< Behind Jan 28-29 1972

Date Jan 31 Feb 1 1972 Mon Tues **Observer** Hn-R **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
35 716	HD 56176	07 10.9	28 14	G12	IIaO B*	13/.3	17°F	23:32	0:30		W 1:40
35 717	HD 67402	08 02.7	27 47	G12	IIaO B*	13/.3		0:33	1:59		W 2:18
35 718	HD 86778	09 55.6	29 16	G12	IIaO B*	13/.3	14°F	2:05	2:31		W 0:56

Dome Temp. 10°F/81%

Transparency Conditions clear up at 23:50

Focus .....

Dome Temp. 8°F/84%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
W 1:40	+26°50'	3	7.740	G7III	10-10-10	S.S.V	60/300		
W 2:18	+27° 40'	3	6.17	K0III	10-10-10	S.S.V	80/300		
W 0:56	+25° 00		8.70	K2III	10-20	SSV	80/058	heavy clouds	

7

* = Baked Jan 28/29

Tues- Wed

Date Feb 1-2/72 **Observer** cb-TA **Julian Day**

Dome Temp. 15
Focus
Dome Temp. 14

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35719	HD 21278	3h 20.9	+40° 43	6/12	#a0*	13/.5		19:25	19:53	A	00 55W +
35720	HD 37479	5 33.8	-2 39	"	"	"	23°F	20:02	21:30	C	00 20W -
35721	HD 41753	6h 01.9	+14° 47	"	"	"		21:33	21:55	B	00 16W +
35722	HD 42690	6h 07 00	-6° 32	"	"	"		22:16	23:18	A	01 38W -
35722 F1	Focus			"	"	13	23°F			F	
35722 T1	calibration step wedge				≡006			2 Feb 72			
	for plates	35719 - 35722									

Dome Temp. 13°F H=81%

Focus

Dome Temp. 14°F H=84%

Transparency Conditions Cloud but good

ime	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3	A	00 55 W	+49° 02	1"-2"	4,97	B3V	10-10-10	Cb Thesis	200/95	meter unbalanced	SL. STR
30	C	00 20 W	-2 30	"	6.33	B3	9-9-9	"	400/160	Cloud	COALESCING FINE
55	B	00 16 W	+14 53	2"	4,42	B3V	9-9-9	"	200/75	"	SL. STR
3	A	01 38 W	-6 25	2"	5.06	B2V	9-9-9	"	200/32	" cut short	SL WK
	A	main	Coudé				3/3	no filter			GOOD
		2 WK - 2/4.0	min @	68°F							

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* baked Jan 28/29

Date 4/5 Feb Fri/Sat 1912 Observer GI/Tn / BIn/Tn Julian Day

Dome Temp. 44°
Focus
Dome Temp. 8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35723	Algol	$3^h 01^m.7$	+40° 34'	G12	IIaO	9/1.5	20°F	22:29	23:09	A	$4^h 43^m$ W +1
35724	HD 93702	10 44.0	+11 04	"	"	13/1.5		02:21	02:43	A	037 W +1
35725	HD 154431	17 00.3	+34 56	"	" *	13/1.5		02:49	03:19	B	5 03 E +1

Dome Temp. 140° 74°/64

Focus

Dome Temp. 8 72°/6

Transparency Conditions Cloud, snow, wind etc

(0)

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
09	A	4h 43m W	+40° 58′	8″	2.2-3.5	B8 V	15-15	radio flare	200/71	had shutters part open	FINE
43	A	0 37 W	+10 47	5″	5.29	A2 V	10-10-10	Sp-13in-Bk	80/42		FINE
9	B	5 03 E	+34 54	3″-4″	6.07	A5 V	9-9-9	Her X	200/26	snow (*overdevelop)	SL WK

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*baked Jan 31/Feb 1

Date Feb 6/7 Sun-Mon Observer Bla-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35726	HD152431	17 00.3	+34 56	C-12	IIa-0*	13/1.5		03:20	04:24	A
35727	HD154888	17 03.7	+35 27	"	"	13/1.3		04:27	06:38	B
35727 Fl	Focus			"	"	13	18			C
	Plate 35723, 35724, 35726, 35727									
	" 35725									

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 8° H=67%

Focus .....

Dome Temp. +1° H=65%

Transparency Conditions Clear by 03^h

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03 49E	+34 55	8	6.07	A5 I	9-9-9	Her X	800/360		FINE
01 39E	+35 26	5-8"	7.19	A0	9-9	"	800/250		FINE
"	"	"	"	"	3/3	no filter			SLIGHT RE TO VIOLET
dew. NWP-2 / 9.0 min @ 60°F							7 F-6/72		
"	"	15	"						

Time P.H.

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* baked Jan 31/Feb 1

Date Feb 7/8 Mon-Tues **Observer** Hu-To **Julian Day**

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35728	Algol	3 01.7	40 34	G12	IIaO*	91.5		18·55	19 59	B	30 47.4
								19·13			

Dome Temp. 7°F H-712 Transparency Conditions mod ocre

Focus .....

Dome Temp. Too Cold for me; I think I'll go south now! See you in a month.

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9	K	00 43W	40 58	5"-8"	~3	B8I	14-14	radio Flare	40/15		sc. stars
		~~———~~	~~———~~	~~3-5~~	~~———~~	~~———~~	~~8-~~	~~———~~	~~gone~~	~~cloud~~	
		dwl. 9.0 min @		68°F/	mcwp-2				8F-0/2-		

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× Baked Ja 24 Feb 1 1972

Date Feb 8-9 1972 Tues Wed **Observer** Hu-Ri / **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35729	HD 23257	03 38.6	+27° 37	G-12	IIa O 3	13/3	14°F	18.46	20:30	A
35730	× Per HD29534	03 49.8	+30° 45	"	"	13/5		20:34	21:47	B

Dome Temp.
Focus
Dome Temp.

Hour Angle End

W 01 43

W 02 50

Dew. 9

Dome Temp. 8°F / 74%

Transparency Conditions scattered clouds

Focus .....

Dome Temp. .....

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0	A	W 01 43	+27° 55'	3	7.60	G5II	10-10-10	S.S.U	8m/30s	clouds	FINE
17	B	W 02 50	+31° 05'	4	6.066	Op	10-10-10		4m/2m	thick clouds	SC. ST. R
		Dew. 9 o min @ 68°F in mcor. 2 / 9 Feb / 72									

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* Baked Jan 31 – Feb 1/72

Date Feb 9–10 1972 Wed–Th **Observer** cb–Sl / Hu–Sl **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35731	HD 21735	3h 25m 3[illegible]	+5° 2[illegible]	G12	IIa0*	13/.5	18°	19:10	19:34	A
35732	HD 26526	5h 27.3	−1° 10	"	"	"	18°	19:40	23:00	B
35733	HD 426[illegible]	6h 07 00	−6° 3[illegible]	"	"	"		23:07	23:30	C
35734	HD 62044	7h 34 04	+29° 09	"	"	"	16°	23:35	23:51	X
35735	HD 86778	9h 55.6	+29 16	"	"	13/3		00:07	01:46	B
35736	HD 100179	11 26.6	+29 52	"	"	"		01:53	03:41	C
35737	HD 102616	11 44.0	+28 41	"	"	"		03:53	05:47	A
35738	HD 154431	17h 00.3	+24.56	"	"	13/.5		05:55	06:28	B
35738F	FOCUS					13/.5	12°		4-44	

Dome Temp.
Focus
Dome Temp.

Hour Angle End

NB-

Dome Temp. 19°F/85%

Transparency Conditions Scattered cloud – very good

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
NB- Opened up and declx slew did not work for									
	Second time			in	me		wheele		
1:04W	-5 02	5	4.63	B8V	10-10-10	Mk sp Stnd	200/100	Upper R. plate Curve Focus	FINE
2:28W	-1° 31	3-5	8.2	B8V	10-10-D	Cb-Hesh	800/285	** 15 min @ 60°F/M.T.-2 Overdevelop	FINE
3:18 W	-6° 26	11	9.8+	F-V	10-10-10	Mk sp Stnd	200/100		FINE
1:10W? 15W	+29° 03	11	~4	K1III	1070-	Binary?	200/160	← PLATE SHOCEN -1" Loss	FINE
00:48 W	+29 02	11	8.70	K2III	10-10-10	SSV	300/300		V.Sc. Cir
01 10 W	+25 36	11	9.02	K4III	10-10-10	SSV	800/300		Sc. Cir
-2 02W	+28 20	11	8.55	K0III	1070-10	SSV	800/300		SL. Cir
01:34E	+34 55	11	6.07	A5V	10-10-10	Her X	200/96		(Guiding) SL. S.T.
									V. Sc.
	W. Ansa - please overdevelop.								

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* Baked Jan 31 – Feb 1/72
** Baked Feb 10/11 1972

Dome Temp. 23
Focus
Dome Temp.

Date Feb 11-12 1972 FRI-SAT **Observer** CB-SI **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle
35739	HD 3360	0h 31.4	+53° 21	G12	IIaO*	13/5	23°	18:29	18:54	A	3 1/2 W
35740	HD 19356 Algol	03 01.7	+40 34	"	IIaO**	"	"	18:37	18:38	B	ca. 1/4 W
35741	HD 37190	05 31.2	−0° 22	"	IIaO**	"	"	18:54	22:44	C	3 1/4 W

Dome Temp. 23°F/81% Transparency Conditions CLEAR BUT HAZY 20

Focus .....

Dome Temp. .....

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		3:05 W	+53°50	2"	3.4	B2V	10-10-10	MK sp STND	40/22		STRONG
		00:40W	+40 57	"	3.	B8V	15-15	Algol	40/21		STRONG
		02:17W	−0° 15'	"	8.6	F9	10-10-	He weak *	800/236	CLOUDS **	SL. WK
								*	* ANSON — Please overlap		

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* Baked Feb 10/11 1972

Date Feb 12 - 13 1972 SAO SM **Observer** ch — mcl **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35742	HD 21278	$3^h 20^m 56$	+18° 43	6/12	IIaO*	13/.5	30°	18:43	1901	A
35743	HD 36046	$5^h 23.8$	−0° 41	"	"	"	"	19:14	22:52	B
35744	HD 52049	$7^h 39.5^m$	+20° 08	"	"	"	30°	22:59	23:39	C
35745	HD86778	9 55.6	+29 16	"	"	13/0.3	30°	00 40	0207	A

Done Temp. 32
Focus
Done Temp.

Hour Angle End

Dome Temp. 32°/95°

Transparency Conditions hazy but clear.

Focus .....

Dome Temp. ..... — AGAIN HAD TO REPAIR DEC. SLEW MOTOR

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0h43W	+49° 03	2"	4.9	B3V	10-10	Mk sp Sind	200/103	- POOR	GUIDING FINE
02h35W	−0° 31	2"	8.9	B9	10-[illegible]	He weak *	800/147	foggy **	VERY WEAK
01h08W	+29 04	2-3"	4.3	K1III	10-10	Blue ?	20/160	(GG10MG)	V. SL. WK
01h20W	+29 00	2-3"	8.7	K2III	10-20	SV	800/112	thick haze — spectrograph dust cover Shutter found stuck half-closed	VERY WEAK
								Closed 0210 — SOLID HAZE, NO COUNTS COMING IN AT ALL!	
plate.	35 739 - 45								
	dev. 12 min @ 68°				1:4 F-6/72			ANSON: PLEASE OVERDEVELOP	
				**	ANSON - please overdevelop.				

23 * baked Feb 10/11/72

Date Mon Tue Feb 14-15/72 Observer SI Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35746	Algol	03 01.7	+40 34	G-12	IIa-O*	9/.5	34°F	19:53	20:00	A	02 12W
35747	Algol	"	"	"	"	"		20:09	20:14	B	02 12W
35748	Algol	"	"	"	"	"		22:06	22:11	A	04 12W
35749	Algol	"	"	"	"	"	34	22:19	22:25	B	04 12W
	~~HD 74280~~	~~0838.0~~	~~+3°45'~~	"	"	"	"	23:14			

Dome Temp. 2
From
Dome Temp. 2

Dome Temp. 26°F H=92%

Focus .....

Dome Temp. 25°F H=96%

Transparency Conditions overcast - some small holes

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02h12W	+40 57	3-4	3	~~B8V~~	15-15	A 90	40/19		FINE
0226W	"	"	"	"	"	"	40/19		FINE
0424W	"	"	"	"	"	"	40/20		FINE
0437W	"	"	"	"	"	"	40/20	thru thick haze no clouds	FINE
~~+03°36~~	"	~~4.1~~	~~B3V~~	~~10-~~	~~Sp Bin Blu~~	~~400~~			

25

* baked Feb 10/11/72

Date Tue-Wed Feb 15/16/72 Observer SI-C6 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35750	Algol	03 01.7	+40 34	G-12	IIa-O	9/1.5		19:39	19:45	A	
	~~H03+32~~	~~05 32.6~~	~~-01 30~~	"	"	13/.5		19.55	20:19	L	
51 T1	Lucalox Test	—	—	G-12	IIa-O*	9/1.2	29°	1 sec.		A	
T2	"			"	"	"		2 sec		B	
T3	"			"	"	"		4 sec.		C	
T4	"			"	"	"		8 sec.		A	
T5	"			"	"	"		16 sec		B	
T6	"			"	"	"		120 sec	(2 min.)	C	

Dome Temp. 2
Focus
Dome Temp.

Dome Temp. 24°F H=76%

Focus .....

Dome Temp. .....

Transparency Conditions overcast to broken.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:01 W	+40 57	5-7	2.2-3.47	BB I	15-15	All gal	40/20		SC-STR
~~—~~	~~-61°20~~	~~3-5~~	~~7.1~~	~~BB~~	~~10-~~	~~Co~~	~~Bad~~		
					30	Light Pollution	~~20~~	light source at secondary end of tube - on platform by dome - lit.	
					"	"			
					"	"			
					"	"			
					"	"			
					"	"			

VT

*=Baked Feb 10/11/72

Done Temp. 16
Focus
Done Temp.

Date Wed Thurs Feb 16/17/72 **Observer** SL-CD **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35751	Algol	3^h 01.7	+40° 34	G12	IIaO*	9/.5	22°F	18:25	18:28	A	0 41 W
35752	HD 37321	5^h 32.6	−1° 30	"	"	13/.5	"	18:44	21:15	B	1 00
35752F	Focus	—	—	"	"	13/8				C	—

Dome Temp. 16°F H=70%

Transparency Conditions Excellent

Focus .....

Dome Temp. .....

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A	0:48W	+40 57	3-4	2.2 -3.97	B8V	15-15	Algol	40/20		SL. STR
	B	1:06	-01 19	3-4	7.0	B8	10-10-10	weak He *	800/287	** CLOUDS, !#0?!&!	FINE
	C	—	—	—	—		4-4	FOCUS		upper grating screw turned 1/8 turn (45°) ccw.	
								NO CENTRE comp. before focus plate taken.			
		35 75	52 —	12"	@	68°F	in	Mop 2	17 Feb 72		
								** ANSON - PLEASE OVER DEVELOP			

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* baked Feb 16/72

Date Thurs-Fri Feb 17/18/72 Observer SI Julian Day

Dome Temp. 20
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35753	Algol	0301.7	+40 34	G-12	IIa-0b*	9/.5		19:46	19:49	A	02 14W
35754	"	"	"	"	"	"	26F	19:57	20:01	B	02 24
	~~NGC 1502 * F~~	~~0359~~	~~+62~~	~~G-13~~	"	~~B/.3~~		~~21.01~~	~~21 14~~	C	~~03 11W~~
TI											

Dome Temp. 20°F H=94%

Transparency Conditions Overcast

Focus .....

Dome Temp. .....

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
49	A	02 14W	+40 59	2"	2.2 3.47	BE	15-15	Algol	40/19	Broken cloud	SL. STR
01	b	02 28W	"	"	"	"	"	"	40/20	cleaving.	SL. STR
~~4~~	C	~~03 10W~~	~~+62 20~~	~~1~~	~~7.4~~	~~(B)~~	~~3~~	~~GH cluster~~	~~30/33~~	~~1 min~~ 1/4 t.o. [illegible] from below.	

31

~~IIa-0b~~ baked Feb 16/72

Date Sun-Mon Feb 20/21/72 Observer SI Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35755	Algol.	03063	+4051	G-12	IIa-0b*	9/.5		19:03	19:05	
	~~HD 30739~~	~~04452~~	~~+0844~~	"	"	9/.5		19:17	19:15	

Dome Temp. 0
Focus
Dome Temp.

Hour Angle End	
0	4
	50

Dome Temp. 0°F H=68%

Transparency Conditions Broken Clouds

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1 42 W	14059	4-5	2.2-3.47	BB V	15-15	Algol	40/185		
	10858	4	4.32	AO V	10	Sp 2 w-2 w	200/	Clouded in AG	

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* dated Feb 16/72.

Date Tue-Wed Feb 22/23/72 Observer S/-H4 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35756	Algol	3h 01.7	40 34	G-12	IIa-O*	8/.5		18:46	18:51	A
35757	HD 37756	5 37.1	29 10	"	"	13/.3	13°	19:06	23:50	B
	~~HD 37978~~	~~9 55.6~~	~~29 16~~							
	~~HD 100179~~	~~11 26.6~~	~~24 52~~	"	"	~~13/.3~~	~~6°~~	00:06		C

Dome Temp. 64
Forest
Dome Temp.

Hour Angle End
01 34 W
04 00 W

Dome Temp. 04°F H=66%

Transparency Conditions Excellent

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 34 W	+40 49.	8"-10"	2.2-3.47	B8V	15-15	Algol	40/20		sc. str
04:00W	+29 18	5-8	7.96	KIII	10-10-10	SSV	800/295	Moon very close!	sc. wk
~~—~~	~~—~~	~~—~~	~~—~~	~~—~~	~~—~~	~~—~~	~~—~~	~~—~~	~~—~~
~~—~~	~~+24 35~~	~~5~~	~~9.02~~	~~KIII~~	~~10-~~	~~SSV~~	~~800/~~	~~Sudden, clouds!~~	~~—~~

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Baker Feb 16

Date Feb 24/25 1972 **Observer** GH-RJ/RJ **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35758	NGC 1502-B	3h 59	+62° 03	G43	IIaO B*	B/3	20° F	20:42	21:40	A
35759	NGC 1502-A	"	"	"	"	"	"	21:45	22:27	B
35760	4023557	3h 34.5	+41° 57	"	"	"	18° F	22:36	0h 00	C
35761	HD 73262	08 32.4	+6° 03	G-10	IIaO B*	13/5		00 20	00 36	A
35762	HD 102646	11 44.0	+28° 41	G-12	IIaO B*	13/3		00 45	03:42	B
35763	HD 154228	17 03.1	+35° 27'	G-12	IIaO B*	13/3	14° F	03:50	05 08	C
35764	HD 154431	17 09 3	+34° 56	G-12	IIaO B*	13/5		05 14	06:14	A
35764F1	focus 20'	on 2nd		G-0	IIaO B*	13	14° F			B

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 12° 29%H

Focus

Dome Temp. 8°F 78%

Transparency Conditions Hazy - Smoke Haze

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3h33W	+62° 20	4	7.4	(B)	3-3-3	6H-CL	800/100		(GUIDING) FINE
4h21W	+62° 22	"	7.4	(B)	3-3-3	"	800/100		(GUIDING) FINE
5h20W	+62° 11	"	7.7	G2	3-3-3	"	800/100		SL. CLK
02h00W	+05° 55'	...	4.14	AOV	10-10-	Spect Bin.	80/40		FINE
01h53W	+28° 22'	3	8.55	KOIII	10-10-10	SSU.	800/200	clouds	FINE
03h40E	+35° 28'	3	7.19	AO	10-10-10	Hu X	800/240	Broken 2 pieces	BROKEN FINE
00h50E	+34° 55	3	6.07	A5V	10-10-10	"	400/200		FINE
					4-4	refilter		dawn	GOOD

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" Baked Feb 16
" Baked Feb 26-26

Done Temp.
Focus
Done Temp.

Date Feb 26/27 1922 est **Observer** S.B./M.L.H. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35765	HD 19356	03h 01.7	+40° 34	8.2	IIIa O*	9/.5		19.30	19.33	C	
35766	"	"	"	"	IIIa B*			19:41	19:48	A	
35767								19.50	19:55	B	
35768								20.00	20:06	C	
35769							26°F	20:08	20:12	A	
35770								20:14	20:18	B	
35771								20.20	20.25	C	
35772								20.27	20:38	A	
35773								20.40	20:47	B	
35774								20.49	20:56	C	
35775								20:54	21:01	A	
35776								21.03	21.07	B	
35777								21.09	21:13	C	
35778								21.25	21.30	A	
35779	γ Per	3h 50m 32.7s	+48° 17'	"	IIIa O	"		21.43	22.02	C	
35780	HD 19356	03 01 7	+40° 34	C.2	IIIa O*	9/.5		22:04	22:13	B	

Dome Temp. 18°F 85%

Focus .....

Dome Temp. .....

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2h11w	+40°58	3	2.2-3.47	BDV	15-15	Alsol	40/20	Vols	
2h43w			"	"	15-15	"	40/18		
2h55w					15-15		"		
3h05w					15-18		40/16		
3h12w					15-15		40/18		
3h19w					15-15		40/16		
					15-15		40/16		
3h39w					15-15		40/18		
3h47w					15-15		[illegible]		
3h55w					15-15		40/20		
4h00w					15-15		40/18		
4h07w					15-15		40/18		
4h14w					15-15		40/20		
4h30w					15-15		40/18		
4h34w	+47°40		4.1	B	10-10		40/21		
5h13w	+40°58		2.2-3.47	BDV	15-15	Alsol	40/20		

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Date Feb 26/27 1922 cont'd **Observer** Sy Ri / McL Ri **Julian Day** .....

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35781	HD 19356	03 0.7	+40° 34	G-12	IIaOB	9/15		23:32	22:38	A	
35782	5 Tau	5 (1920) 35.9	+20° 08	G4/3	IIaO	13/15		23:21	23:26	B	
35783	"	"	"	"	"	"		23:31	23:35	A	
35784								23:37	23:40	A	
35785								23:42	23:46	B	
35786								23:48	23:52	B	
35787								23:54	23:57	A	
35788	HD 86728	09 55.6	-29° 16	G-12	IIaOD*	13/13	10°F	00:12	01 17	B	
35789	HD 120421	13 [illegible]	-20° 22	"	"	"		02 33	04:37	C	
35790	[illegible]	[illegible]	[illegible]	—		13/15	15°F	04 40	05 16	B	
35790 T1					IIaO6						
T2					IIaO						

Dome Temp. .....

Focus .....

Dome Temp. 8°F 83%

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
5h39W	49°58		22 3.47	B8V	15-15	Algol	40/22		
3h56W	-21°15		3.07	B2	5-5	5 Y	40/10		
4h06W	"				5-5		40/10		
4h11W					5-5		40/7		
4h17W					5-5		40/14		
4h23W					5-5		40/9		
4h28W					5-5		40/11		
	Arlene, will you please take calibration plate from the base								
	Mark has painted one half of plate from the base. Put the other two with								
	one piece from 15 we baked before. Samyal								
02 25N	+29°00	3"	8.70	K2III	10-10-10	55 V	80/30		
0h-7m W	+28 06	3-4"	8.92	K1III	10-10-5	"	80/30		SL. WIC
00 37E	+34 55	"	6.07	M2III	10-10-	"	40/20	Venus clouds	FINE

(1)

Baked Feb 26-27

Date Mar 3-4 Fri Sat 1972 **Observer** R. Waterloo **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35791	HD 19356	03 01.7	+40° 34	G-12	IIaOB	9/.5	20°F	18: 56	19:02	A
35792	θ Ori C	05 30.4	-05° 27'	"	"	9/.5		19 08	20:10	B
35793	HD 38670	05 42.4	+20° 50	"	"	13/.5		20 18	21: 18	C
35794	HD 74874AB	08 41.5	+06° 47	"	"	13/.5		21. 55	22:15	A
35795	HD 87822	10 02.5	+32° 06'	"	"	13/.5		22.23	00:17	B
35796	HD 103483A	11 49.9	+47° 02	"	"	13/.5	12°F	00:25	02:21	C
35797	HD 126129	14 [illegible]	[illegible]	"	"	"		22: 38	03:07	A
35798	HD 139195	15 31.7	+10° 21	"	"	"		03: 17	04 22	B
35799	HD 137391	15 20.7	+37 41	"	"	"		04: 30	04:53	C
35800	HD 150100	16 33 8	+53 06	"	"	"	12°F	05: 04	05: 30	A

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 10°F 69%

Focus .....

Dome Temp. 5°F 70%

Transparency Conditions clear bad seeing

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02h25W	+40° 58		2.2 3.47	B8 V	15-15	Algol	40/15		SC. STR
01h06W	-05° 18'	4	5.22	O6p	10-10-10		200/100		
02h02W	+20° 59'	4	5.02	B9	10-10-10	Clear Un Bu	400/200		
00h01W	+06° 38	4	3.98	F8	10-10-10	"	200/147		
00h41W	+31° 50'	4	6.60	F5	10-10-10		400/260		
01h03W	+46° 44	4	6.46	A0	10-10-10		400/200		
00h14E	+08° 40'	4	5.55	A0 V	10 10 10		400/200		
0h40E	+10° 10	4	5.4	K1p	10 10 10	Delta Cep	400/320		
00h01W	+37° 34'	4	4.65	F0 V	10 10-10	Uncal Bu	400/200	clouds from S.W.	
00h34E	+53° 03'	4	5.64	A0	10-20	"	400/90	cloud out	

(11)

Date Mar 5-6 1972 8m m **Observer** RI **Julian Day**

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35801	HD19356	03 01.7	+40° 34'	G-12	IIa-O	9/.5	22°F	19.23	19.29	A	08°30W
	~~HD51418~~	~~06 52.2~~	~~+42°26~~	G-12	IIa-O	9/.5		19.38	20.10	B	06°10E

Dome Temp. 100°F 7% Transparency Conditions scattered clouds

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03h00m W	+40° 48	4"	2.2-3.47	B8V	15-15	A1sd	40/19		3c.sfr
~~00h46m E~~	~~+42°26~~		6.61	ADP	10	G1 Ap+m	~~40~~/20	~~loaded out~~	

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* baked Feb 26/27/72.

Date Wed. Thurs Mar 8/9/72 Observer Tm – SY/De-Tm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35802.	S Tau			G-12	IIa-O* b	9/.5		22:19	22:31	B	05 45W
35803	"			"	"	"		22:35	22:45	C	04 30W
35804	"			"	"	"		22:50	23:07	A	02 42W
35805	"			"	"	"	17°F	23:10	23:32	B	00 41W
35806	β CMi			"	"	"		23:40	23:50	A	03 15W
35807	"			"	"	"		23:54	00:10	B	03 36W
35808	HD 107~~335~~325	$12^h 15^m 18^s$	27° 11′	"	"	13/.3	13°F	00:43	03:55	A	02 23W
35809	HD 154431	$17^h 00.^m3$	+34° 56′	"	IIa-O	13/.5		04:05	05:41	B	01 30E
35810	HD 152614	$16^h 47.^m3$	+10° 20′	"	"	13/.5		05 51	06 05	C	—
35810 Fl	Focus				"	13				B	

Dome Temp. 40
Focus
Dome Temp. 6

Dome Temp. 10°F H=66%

Focus .....

Dome Temp. 6°F H=67%

Transparency Conditions ..... very cloudy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03 45W	+21° 13	10"	2.9	B3	12-	Sy	40/20		
0400W	"	8"	"	"	12-12	"	40/20		
0421W	"	"	"	"	12-12	"	40/20		
0445W	"	"	"	"	12-12	"	40/20		
0316W		"			12-12	"	40/14		
0336W		"			12-12	"	40/18		
			Arnson			wire grid		take a calibration	
			plate (Locked)				+6	6 Tau 1 BCM	
02 27m W	+26 51	3"-8"	6.72	gK2	8-8-8	Sy 4, BINARY G1001	400/450	sampled	
0h 30m E	+34 52	3"-6"	6.07	A5V	8-8-8	HERX	400/200		
~~00~~	10 18	3"	4.30	B8V	12-12	spkn-flm	40/16		
in in / out out					4-4			CENTRE TO UNIT	

Date Thurs Fri Mar 9/10 Observer GH-Tn / Hu-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35811	NGC 1502-59	3 59	+62° 16	G43	IIa-O	13/.5	20°	19:09	20:17	A	3½ W
35812	AX Mon	6 25.2	+5° 56	G12	IIaO	13/.5	19°F	21.45	23:35	B	4.10 W
35813	HD 79469	9 09.2	+2° 44	"	"	"	"	23:43	23:51	C	1.32 W
35814	HD 100179	11 26.6	24°52	"	"	13/.3		23:57	03 29	A	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 12° 74 90

Focus

Dome Temp. 10 77 5

Transparency Conditions excellent - haze snow
not cloud - haze

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3h 05 W	+62° 20	1	9.1	(F?)	3-6	64-Clusters	800/54	plates develop! ie over develop (Clouds last 20 counts)	
								snow!	9/30
4 00 W	+6° 00	2"	6.8		8-8-8	Shell *	400/116	Fld drawn-(not sure) slow?	
1 32 W		"	3.82	B9.5Ep	12-12	spectra-flux	40/18		
	+24 34	"	9.02	K4III	4-5-4 4-4-4	SSV	600/280	over develop also	

Date Full/5 A.T. 10/11 Mar 22 **Observer** Gal-Tn/Bla-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35815	HD37450	5h 33.7m	+10° 04'	G12	IIaO	9/.5	"	18:58	19:26	A	0 45W
35816	HD45725 'A'	6 24.0	-6 58	"	"	"	21°F	19:31	20:29	B	1 00W
35817	HD51447	6h 52.2m	+44° 26'	"	"	"		20:34	23:28	C	3h 30m W
35818	HD74280	8h 36.7m	+13° 45'	"	"	9/.5		23:34	23:48	B	2 0m W
35819	HD82504	10h 26.5m	+15° 2'	"	"	"		23:54	00:24	A	0h 17m W
35820	HD141457	15 44.1	+13° 01'	"	"	13/.5		00:30	03:30	B	0h 25E

Dome Temp.
Focus
Dome Temp.

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Dome Temp. 14°F 72%H

Transparency Conditions Excellent - hazy (cirrus)

Focus .....

Dome Temp. .....

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
:26		0 45W	+04° 12	3"-4'	4.4	B2p	8-9-8	G1 Shell	200/100		
29		1 00W	-6 56	"	4.5	B3Ve	8-8-8	"	200/100	cirrus clouds	
:29	C	3h30mW	+42° 25	"	6.61	A0p	8-8-8	G1 Ap + m	400/220		
:29	E	2 05 W	+03° 36'	"	4.10	B3V	12-12	Bln Bin	200/100		
:4	A	01 18W	-12 47	"	4.51	B8V	8-8-8	Bln Sp Bin	200/100		
30	B	01 20E	+12 55	"	6.80	A0	10-10-10	Sp Em - Bln	400/160	Clouds at 01:30 ↑ over Jupiter plane	

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*booked Feb26/27

Dome Temp. ...
Focus ...
Dome Temp. ...

Date Sun-Mon 12/13 Mar 72 **Observer** Sg-Tn/Hu-Tn **Julian Day** .....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End	D
35821	4 Per	3 29.6	47 52	G12	IIaO	13/1.5		19:24	19:42	A	03 12W	-4
35822	"	"	"	"	"	"	37°F	19:43	19:53	B	03 2W	
35823	"	"	"	"	"	"		19:57	20:07	A	03 17W	
35824	"	"	"	"	"	"		20:09	20:19	B	03 32W	
35825	"	"	"	"	"	"		20:20	20:34	A	03 47W	
35826	"	"	"	"	IaO*	"	36°F	20 34	20:42	B	04 14W	
35827	"	"	"	"	IIaO	"		21:11	21:31	A	04 41W	
35828	"	"	"	"	IIaO	"		21:36	21:54	C	05 22W	
35829	AX Mon	6 25.2	+5 56	"	"	25/1.3		22:03	23:25	B	04 51W	+7
35830	βCMi	7 21.7	8° 29	"	IaO	9/1.5		23 33	23 43	C	03 24W	
35831	"	"	"	"	"	"		23 45	23 55	A	03 31W	
35832	"	"	"	"	"	"	34°F	23 57	00 09	B	03 50W	
35833	HD 120421	13h 44.2m	28° 22	"	"	13/1.3		00 18	03 46	C	01 08W	+2
35833F1	Focus			"	"	13	32°F			B		

Dome Temp. 27°F H = 85%

Transparency Conditions very good

Focus

Dome Temp. 23°F H = 77%

increasing haze to cloud

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03 12W	+48 11	2-3	4.1	B	15-15	Sy Emlin	40/20		
03 23W	"	"	"	"	15-15		40/20		
03 37W	"	"	"	"	15-15		40/19		
03 50W	"	"	"	"	15-15		40/20		
04 05W	"	3-4"	"	"	15-15		40/20		
04 14W	"	"	"	"	15-15		40/17	Anson - please get	
05:00W	"	"	"	"	15-15		40/19	cal plate for these	
05 23W	"	5-7"	"	"	15-15		40/14	plates - cover	
04 02W	+6 00	3-4"	6.8	B	5-5-5		400/113	Sanyal	
03 24W		2-3"	2.7	B	15-15		40/18		
03 36W		"	"	"	15-15		40/21		
03 50W		"	"	"	15-15		40/19		
01 08W	+28 06	2"	8.52	K III	5-5-5 5-5-5	SSV	800/230	Cloud - overdevelop 1" Dew	
	Anvil/cloud				474	no filter			GOOD

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* BAKED MAR 13/14
** BAKED MAR 17/18

Date Sat-Sun 18/19 MAR 72 **Observer** TA-CB/BH-TA **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35834	HD 21790	3h 25.3	−5° 25	6cm	IIaO*	13/5		19:15	19:31	A	03.2W
35835	HD 37190	5h 31.2	−0° 22	"	IIaO*	"		19:37	21:53	B	03.4W
35836	HD 86778	9 55.6	+29 16	"	IIaO*	13/3	21°F	21:58	01:16	A	02.5W
35837	HD153649	16 55.6	+35 01	"	"	25/3		01 25	05:37	C	00.2W
35838	HD 124497	14 11.1	+19 42	"	"	13/5		05 45	05:46	B	02.8W

Dome Temp. 18°F H=66% Transparency Conditions Excellent

Focus .....

Dome Temp. 12°F H=71%

Ending Time EST	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9.31		0325W	-5° 03	5-8"	[illegible]	[illegible]	10-10-8	Sp std	200/45	(overdevelop)	(CALIBRATION) V. SL. WK
1:53		0348W	-0 13	2-3"	8.6	Bg?	10-9-9	He poor	800/60	very slow (overdevelop)	VERY WEAK
.16	A	0247W	+29 00	3-4	8.7	K2III	5-5-5 5-5-5	SSV	800/270	(overdeveloped)	SL. WK
1:17	C	0010W	+35 00	3-5"	8.39	A2	9-9-9	Her X	800/270		FINE
1:11	B	0303W		5	8.29	K2III	15-15	Std. Vel.	40/26		SL. STR.
										(Calib is 5 min @ 68°F)	Ni WP-2

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* BAKED MAR 13/14

** BAKED MAR 17/18

Date Sun Mon 19/20 Mar 72 **Observer** Tu-Cb/Hu-Tu **Julian Day** accident

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35839	Algol	03 01.7	40 34	G12	IIaO*	91.5		19:05	19:07	A	13 39W
35840	HD 36526	05 27.2	-1 40	"	IIaO*	"	27°F	19:14	21:44	B	03 45W
35841	HD 51418	06 52.2	+42 26	"	"	91.5		21:50	00:02	C	14 32W
35842	HD 120421	13 44.2	28 22	"	IIaO*	131.3		00:07	01:57	B	11 17E
35842 F1	Test plate to determine tilt of grating to reach #A										
35842 F2					"						
35842 F3					"						
35842 F4					"						
35842 T6					"						
35842 T7					"						
35842 T8					"						
35842 T9					"						
35842 T10					"						
35842 T11					"						
35842 T12	Test plate to determine tilt of G12 grating				IIaO*					A	

Dome Temp. 2[illegible]
Focus
Dome Temp. 2[illegible]

Dome Temp. 22°/68°/o

Focus .....

Dome Temp. 20 73

Transparency Conditions CLEAR (Excellent)
cloud by 1:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03 34W	40 58	2"-3"	2.2-3.47	B8 V	15-10		40/18		SL. STRONG
03 46W	-1 30	1"-2"-4"	8.2	B8? V	10-10-10	He poor	800/93	overdevelop please	VERY WEAK
04 38W	+42 27	1-2"-3"	6.61	A0p	9-9-9	4 pairs	400/170		FINE
00 17E	—	1-2"	8.52	K1 III	5-5-4 5-10	SSV	800/210	cloud overdevelop	SL. WK
lamp — No exp. time = 4 min, emulsion IIaF, Filter GG14 → dev. 15 min @ 68°F									
"	"		5	"		"		"	
"	"		3	"		"		"	
"	"		2	"		"		" Lamp will be down a little in intensity — may not matter	
"	"		5	"		"		None	
"	"		4	"		"		"	
"	"		3	"		"		"	
"	"		2	"		"		"	
"	"		6	"		"		GG14	
Fe arc			1	"		"		No filter (even neutral filter not used)	
					30 sec			OK	

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** Baleed Mar 23/24
* Baleed Mar 13/14

Date Fri-Sat March 24-25/72 **Observer** C6-Tn/Bin-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35843	Algol	03 01.7	40 34	G12	IIaO*	9/1.5	25°F	19:16	19:22	A	4 00W
35844	HD 37321	05 32.6	-01 30	"	IIaO**	18/1.5		19:38	21:30	B	3 45W
35845	HD 41753	06 01.9	+14 47	"	IIaO*	"		21:35	21:51	C	1 37W
35846	HD 87504	10 00.3	-12 35	"	"	"		21:55	22:25	A	1 14W
35847	HD 98664	11 19.6	+6 12	"	"	"	23°F	22:27	22:41	B	00 30E
35848	HD 91316	10 [illegible]	+9 49	"	"	"		22:45	22:55	C	0 47W
35849	HD 73262	8 32.4	+6 03	"	"	13/1.5		23:01	23:21	A	2 27W
35850	HD 74280	8 38.0	+3 45	"	"	13/1.5		23:32	23:37	B	3 [illegible] W
35851	HD 79469	9 09.2	+2 44	"	"	"		23:42	23:54	C	4 23W
35852	HD 77309	8 [illegible].7	+5 41	"	"	"		00:00	01:08	A	4 39W
35853	+35° 2913	17 01.2	+35 08	G93	IIaO**	18/1.3		01:28	05:16	B	1 [illegible]W
35854	HD 164353	17 [illegible].6	+02 56	G12	"	18/1.5		05:31	05:37	C	2 [illegible]E

Dome Temp. 18°
Focus
Dome Temp. 13

Dome Temp. 18°F/71°

Focus .....

Dome Temp. 13/72°

Transparency Conditions ..... Clear, (hazy) but very cold seeing

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
4 08W	40° 58'	5"-15"	2.2-3.47	B8 V	14-15	Algol	40/17		V. Sl. Wk
3 +5W	-01° 18"	5"-10"	7.1	B8	10-10-10	cb He weak	800/160	overdevelop (15 min) please	Sl. Wk
3 37W	+14 54	3"-6"	4.2	B8V	13-13	MK Stnd	40/17		FINE
0 14W	-12 48	3"-4"	4.51	B8V	13-13	"	200/90		FINE
00 ~~50~~ 11.5E	+6 17	"	4.06	B9V	13-13	"	40/17		FINE
00 16W	+9 34	"	3.6	B0	13-13	B vel std	40/17		FINE
02 37W	+5 55	3"-5"	4.14	A0V	10-10-10	Sp. Bin Stn	80/40		FINE
02 50W	+3 36	3-4	4.10	B3V	10-10/10	"	160/37	Accidentally numbered #11	(Guiding) FINE
02 36W	+2 34	3-4	3.82	B9V	10-10-10	"	80/36	" band slit	FINE
04 00W	54 29	3	5.64	A2m	10-10-10	"	200/100		(Guiding) FINE
00 08W	+35 08	4	(9.5)	?	3-3-3	Her X	4000/185	Overdevelop please 19 minutes	VERY WEAK
00 28E	+3 01	2-3	4.0	B5	15-15	B Vel Std.	80/36		FINE

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** Baked Mar 23/24

* Baked Mar 13/14

Date Sat-Sun Mar 25-26/72 **Observer** TA-CG/BL-TA **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35855	Algol	03 01.7	40 34	G12	IIaO*	9/5	25°F	19:18	19:20	A
~~35856~~	~~HD 36526~~	~~5 27.2~~	~~-1 40~~	"	~~IIaO*~~	~~13/5~~		~~19:29~~		B
35856	HD 37321	5 32.6	-1 30	G12	IIaO*	13/5		19:47	21:25	A
35857	HD 41753	6 01.9	14 47	"	IIaO*	"		21:30	21:48	E
35858	HD 87504	10 00.3	-12 35	"	IIaO*		23°F	21:53	22:17	C
35859	HD 98664	11 16.0	+6 35	"	IIIaO*	"		22:21	22:29	B
35860	HD 91316	10 27.5	+9 49	"	IIaO*	"		22:35	22:43	A
35861	HD 104451	11 56.6	+30 06	"	"	25/13		22:50	02:18	C
35862	HD 155179	17 04.9	+55 09	"	"	20/3		02:25	03:51	A
35863	HD 141458	15 44.1	+13 01	"	"	13/3		03:[illegible]	05:21	B
35864	HD 164353	17 53.6	+2 56	"	"	13/5		05 25	05 53	A
35854 Fl	Focus			"	"	13	22			E

Dome Temp.
Focus
Dome Temp.

Hour Angle End
4:[illegible]
3 47 W
2 30 W
0 [illegible] W
0 55 E
0 [illegible] W
[illegible]
0 [illegible] W
0 [illegible] W

Dome Temp. 19°/70%

Focus .....

Dome Temp. 13/70?

Transparency Conditions Clear - Excellent

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
4 10 W	+40 58	2"	3.2 - 3.4?	B8V	15-14	Algol	40/17		(GUIDING) FINE
	-1° 29'	1"-2"	8.2	B8	10-	He-weak	800/		
3 47 W	-7° 17'	2"-4"	7.1	B8	10-10-10	He weak	Slow/213	overdark p rise	WEAK
3 38 W	+14 54	3"-4"	4.2	B5V	15-10	MK std	40/17	(15 min)	FINE
0 10 W	-12 47	"	4.51	B8V	10-10-10	"	200/90		FINE
0 53 E	+6 19	"	3.99	B9V	15-15	"	40/17		(GUIDING) FINE
0 09 W	+9 34	"	3.6	B0	15-15	B std vel	40/17		(GUIDING) FINE
0 2 15 W	+29 49	3"-4"	8.7	gF3	8-8-8	Sp Bin-Blu	800/276		FINE
0 1 19 E	+35 11	3-4	7.77	K0	9-9-9	Her X	800/300		SL. WK
0 1 31 W	+12 54	3"-4"	6.80	A0	10-10-10	Sp. Bin. Blu	400/250		FINE
	+3 03	bad	4.0	B5	15-15	B std vel	40/17		FINE
	~~in~~ / out	out			4/4	no filter			SL. CENTRE TO VIOLET

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* baked Mar 23/24

Date Sun-Mon Mar 26-27/72 **Observer** Sy-To / Hu-Ty **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35865	AX Mon	6 25.2	+5 56	G12	IIaO*	13/.3		19:29	22:03	A
35866	2 Tau HD 37202	5 31.7	+21 05	"	"	91.5	26°	22:07	22:15	B
35867	"	"	"	"	"	"		22:17	22:27	C
35868	f cM	7 21.7	+8 29	"	"	"		22:36	22:45	A
35869	"	"	"	"	IIaO	"		22:52	23:02	C
35870	"	"	"	"	"	"		23:05	23:15	A
35871	"	"	"	"	"	"		23:16	23:26	B
35872	"	"	"	"	"	"		23:28	23:38	C
35873	HD 120421	13 44.2	28 22	"	IaO*	13/.3		23:46	02:38	B
35874	HD 141458	15 44.1	13 01	"	"	13/.5		02:50	04:18	C
35875	HD 154431	17 00.3	39 56	"	"	"		04:23	4:59	A
35876	HD 152614	16 49.3	+10 20	"	IaO	13/.5		05:02	5:12	B
35877	β Oph	17 30.5	+4 37	"	"	91.5	23°	05:16	05:23	C
35878 T1	calibration for plate				IaO					
T2	35843 - 35877 (excluding				IaO6					
	# 35844 & 35857) 50'									

Dome Temp. /
Focus
Dome Temp. /

Hour Angle End

Dome Temp. 18° 68%

Transparency Conditions Excellent

Focus

Dome Temp. 17° 70%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3 35W	+6 01	3-4"	6.8	B	10-9-10		400/130		SLIGHT WK
	+21 16	2-4	2.9	B	10-8-10	Em Line Sq	200/80	Emission [illegible]	(GUIDING) FINE
4 52W	"	"	"	"	10-20		200/80	[illegible]	FINE
	+8 29	3-6"	2.7	B	15-15		40/19	[illegible]	FINE
3 37W	"	"	"	"	15-15		40/19	(WEAK Fe) Sq	FINE
2 50W	"	"	"	"	15-15		40/20		FINE
	"	"	"	"	15-15		40/17		(GUIDING) FINE
	"	"	"	"	15-15		40/18		FINE
00 52W	+28 08	2-3"	8.52	K1 III	5-5-5 5-5-5	S S V	800/310		FINE
00 33W	+12 56	1-3"	6.80	A0	10-10-10	Sp Bin-Bln	400/160		FINE
00 03E	+34 56	"	6.07	A5 V	10-10-10	Her X	400/160		FINE
00 21W	+10 19	1-2"	4.30	K8 V	15-15	Sp Bin-Bln	40/17		FINE
10 15E	+4 41	"	3.93	K2 III	15-15	Quiet	40/26		FINE

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IIaO* baked Mar 27

Dome Temp. 2
Focus
Dome Temp.

Date Mon-Tues Mar 27-28/72 **Observer** Hg-Tr / **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35878	Algol	3 01.7	40 34	G12	IIaO	91.5	29°	19:19	19:21	A	4
35879	"	"	"	"	"	"		19:23	19:27	B	4.2W
35880	HD 48638	06 39.3	27 47	"	IIaO*	13/3	27F	19:37	21:33	A	2.5W

Dome Temp. 20° H=70%

Focus .....

Dome Temp. .....

Transparency Conditions Excellent again...

cloud 1 at 21:30

ing Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21	A		40 56	2"	22 3.42	B8 V	15-15		40/17		(GUIDING) SL. WK
27	B	4 26W	1	"	"	"	15-15		40/17		(GUIDING) FINE
35	A	2 54W	+27 46	"	8.40	K3 III	5-5-5 5-10	SSV	800/210	Cloud (12 m) overdevelop	WEAK

65 * Baked Mar 27/28

Date Tue-Wed Mar 28-29/1972 **Observer** Ch-Tn / Oc-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35881	HD. 24398	03 47.8	+31 35	G12	IIaO*	13/.5		19:21	19 27	A	03 [illegible]
35882	HP 36526	5 27.2	-1 40	"	"	18/.5		19:48	22:08	B	04 [illegible]
35882A	HD 41753	6h 01.9	+14° 47	"	"	"	31°	22:21	22:45	C	[illegible]
35883	HD 98664	11 16.0	+6 35.	"	"	"		23:37	23:51	B	[illegible]
35884	HD91316	10 27.5	+9 49	"	"	"	30°F	23:59	00:13	A	[illegible]
35885	HD107325	12h 15.3m	+27° 11'	"	"	18/.3		00 :1	00:57	C	
35886	"	"	"	"	"	13/.3	27	00 57	05:19	B	[illegible]

Dome Temp.
Focus
Dome Temp.

Dome Temp. 22 H=73%

Transparency Conditions Excellent

Focus

Dome Temp. 19° H-82%

Telescope in rough shape tonight - everything "out" bad seeing also overexposed 45 MIN

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0341W	+31 47	3-4"	2.7	B0	15-12	Stnd Vel.	40/16	reversed Ic!	FINE
0448W	-1 38	3-8'	8.2	B8	9-9-9	Newt-C6	800/120	cut short (too much background)	VERY WEAK
0448W	+14 44	4-8'	4.2	B3V	9-9-9	MK Stnd	40/16	[illegible]	(GUIDING) FINE
0130W 0440W		"	3.99	B9V	15-15	MK Stnd	40/17		(GUIDING) FINE
0150W	+9 31	"	3.6	B0	15-15	Stnd Vel.	40/17		FINE
	26 51	2-3	6.7	A2	9-15	G1001	400/113		FINE
0510W	"	2-4	"	"	9-9	"	400/600		STRONG

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Dated Mar 27 28

Date Thurs Fri Mar 30 31 1927 Observer W.Z.-R. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35887	+10 4752	06 32.2	+29 00 04	G-12	IIaO B	13/.5	36°F	19: 22	20. 20	A	[illegible]

Dome Temp.
Focus
Dome Temp.

Dome Temp. 28°F 75%

Transparency Conditions scattered clouds and hazy

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2h 00 W	+29° 08		5.51	40D	10%-		20/77	cloudy	FINE
								(COMPARISON	SI WK)

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Baked Mar 27/28

Date Mar 31 April 1 1971 Observer BK-R Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle East
35888	HD74874 AB	8 41·5	+6 47	G-12	IIaO 13*	13/.5	38°F	20:24	20:48	A	0°.5W
35889	HD62509	7 39·2	+28 16	"	"	"		20:54	21 04	B	01°.4W

Dome Temp. 28°F 71%

Focus .....

Dome Temp. .....

Transparency Conditions .....

ding Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
48	A	04 25W	+06° 38'	3	F8	3.98	15-15	Waterloo C.U.S.P.	80/55	Standard	FINE
04	B	01h 40W	+28 01 2		Kaw	1.2	15-15	Late Type	90/35	"	FINE

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Date April 2 1972 Sun Observer B.A.-R. Julian Day

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35890	HD 130109	14 41.2	+02° 19'	G-10	IIa-O B	13/1.5	36°F	02:10	02:22	A	00 32 W
35891	HD130841	14 45.9	−15 38	"	"	13/1.5		02:26	02:36	B	001 W
	~~HD141457~~	~~15 44.1~~	~~+13 01~~	"		"					

Dome Temp. 28°F 82%

Focus

Dome Temp.

Transparency Conditions Poor Hazy scattered clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 03W	+ 2 06	3	3.74	AoI	15-15	Sp Bin-Blu	80/40		FINE
0012W	-15 49	3	2.89	Am	15-15	"	80/36	Cloud!	V SL. WK
			6.80	Ao		"	800/		
						plate 35887 -	35891 : 9.0 min @ 68° =		
							in NGP-2		

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* Baked Mar 27/28/72

Date Tue/Wed 4/5 April '72 **Observer** Bln-Pi/Hm-Ri **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35892	HD 24912	03 52.5	+31 30	G-12	Ta-O5*	13/1.5	34°F	19:26	19:40	A
35893	Algol	03 01.7	+40 34	"	"	13/1.5		19:43	19:46	B
35894	NOVA HD 45910	06 25.2	+05°56	"	"	13/1.3		19:52	22:00	C
35895	HD 73262	08 32.4	+06 03	"	"	13/1.5		22:05	22:22	H
35896	HD 74280	08 [illegible]	[illegible]	"	"	"		22:25	22:45	E
35897	HD 79469	09 09.2	+020 44	"	"	"		22:46	23:01	C
35898	HD 87404	10 00.3	-12 35	"	IIa-O	"		23:04	23:40	H
35899	HD 135364	15 9.6	48 57	"	IIaOB	13/1.3		23:49	02:25	B
35899E1	focus 6.4	[illegible]	[illegible]	"	"	13	23°			B
[illegible]	calibration	[illegible]	[illegible]		[illegible]	93, +5 - 79				
					IIaO					

Dome Temp. Z
Focus
Dome Temp.

Hour Angle End

Dome Temp. 27° H=60%

Focus .....

Dome Temp. 20°F H70%

Transparency Conditions Excellent - occasional slight haze

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
04"18w	+35° 49'	4-6	4.04	O7	10-10-10	Sp. Bin-Bin	40/16		FINE
05"16w	+40°58'	"	2.27 3.47	B8 I	.5-5	"	40/16	DEV. 18 M	(GUIDING) FINE
04"08w	+06° 00'	"	6.8	Be	10-10-10	Sp. Var.	800/176	Clouds Overdeveloped Light Cone of plate in	SL. WK
02"32w	+5° 55'	5	4.14	A0 V	10-10-10	Sp. Bin-Bin	80/40		FINE
02"39w	+03°35'	"	4.10	B3 V	10-10-10	"	80/38		FINE
02"25w	+02°33'	"	3.82	B9.5 Ib	10-10-10	"	80/38		FINE
02"14w	-12°47	"	4.51	B8 V	10-10-10	"	80/40		FINE
00 10E	48 45	"	7.2	K2 III	5-5-5 15	Vis. bin. Hd	800/150	Clouds! overdeveloped fog	VERY WEAK
					4-4	no filter			GOOD
15° ni	@ 65°F	in	2-76						

ding Time E.S.T. P.H.

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+ Baked Mar 27/28

Date Wed-Thurs 5/6 April 72 Observer WZ-Tn / Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35900	Algol	03 01.7	40 34	612	IIaO*	9/5		19:44	20:16	A	5 5.4

Dome Temp.
Focus
Dome Temp.

Dome Temp. 21° 14:64?0

Transparency Conditions cloud

Focus

Dome Temp.

ding Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1/5	A	5h 50m W	40° 57'	2-3	22.347	B8V	15-15		200/90	cloud	Fine

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+baked April 4/5

Date FRI-SAT 7/8 APRIL 72 Observer WEST-IN Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35901	166 MINORUM	5h 58.0m	+23° 16'	G12	IIa-O*	13/.5	23°	19:56	21:06	A	3 SW
35902	1 GEMINORUM	"	"	"	"	"		21:06	22:12	B	4 SW
35903	B GEMINORUM	7h 39.3m	+28° 13'	"	"	"		22:17	22:19	C	2 SW
35904	HD 135364	15 09.6	48 57	"	"	13/.3		22:44	02:28	B	1 SW
35905	HD 187691	19h 46.2m	+10 10	"	"	13/.5		02:36	03:34	C	2 SW
35906	ADS 14893	21h 16.5m	+09° 55	"	"	"	16°	03:39	04:56	A	3 SW

Dome Temp.
Focus
Dome Temp.

Dome Temp. 14° H=62%

Transparency Conditions cloudy - haze clear

Focus

Dome Temp. 8 H=62%

ing Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
N	A	3 51 W	+23 24	2"-4"	V= 4.5	K0 68	10-9-10	MULTIPLE STARS	200/130		Fine
12	B	4 58 W	"	"	"	"	10-10-9	"	200/125		Fine
11	C	3 24 W	—	"		K0 III	14-17	"	40/23		Fine
11	B	0 05 W	48 45	1"-2"	7.2?	K2 III	10-9-9	Vis Bin - Hd	800/265	Must be fainter than 7.2 (overlap)	Fine
24	C	3 27 E	10 26	3"-5"	V= 5.2	F8	10-10-10	Multi Stars	400/215		Fine
5	A	3 33 E	10 19	"	V= 6.35	F7	10-10	"	900/69	(overlap)	weak

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* baked April 9/5

Date Sat-Sun 8/9 April 72 **Observer** Tn-Wed/Bla-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35907	[illegible]	7h 39.3m	+28° 13'	0-12	IIa-0+	13/5	23°F	19h 35m	19h [illegible]	B	0h 7.1m W
35908	BD 27°963	5h 53.9m	+27° 16'	"	"	18/5		19h 51m	22:25	A	5 19.4 W
35909	HD 104451	11 56.6	+30 06	"	"	25/3		22:30	02:14	C	3 49.4 W
35910	HD 130841	14 45.4	-15 36	"	"	9/5	22°F	02:20	02:36	B	22 54.4 W
35911	HD 141457	15 44.1	+12 01	"	"	13/5		02:40	05:02	A	0 20.7 W

Dome Temp. /
Focus ——
Dome Temp.

Dome Temp. 15° H=70%

Focus .....

Dome Temp. 17° H=75%

Transparency Conditions Excellent - Some Haze

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0h 45m W		2"-3"	1"2	KO III	30s	Mult Stars	40/23		Fine
5 19 W	27° 23'	3"-4"	mv 6.8	KO	9-10-9	"	800/310	Overdevelop please	Fine
3 07 W	+29° 47'	3	8.7	gF3	10-10-10	Sp B.-B/w	800/250		s/weak
00 40 W	-15 50	5-10	2.89	Am	15-15	"	40/18		Fine
02 07 W	+12 54	3-5"	6.80	AO	10-10-10	"	400/180		Fine

81

* BAKED 4/5 APRIL

Date SUN-MON 9/10 APRIL 1972 **Observer** DC-TN **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35912	ALGOL	0301.7	40 34	G-12	IIaO*	9/5		19:45	19:49	A
35913	HD 107325	12 15.3	27 11	"	"	13/3		20 00	23:20	C
35913 F1	Focus			"	"	13	32°F			B
35913 T1	Calibration	step wedge for plates				35900-35903, 35905, 35907-				
					IIaO*	&	35912-35913.			
	Plates	35904, 35906, 35908			developed	for	15 min	@ 65°-11		
	Plates	35909-35911			developed	in D76	for 15 min	@ 68°F		

Done Temp.
Focus
Done Temp.

Hour Angle End
5h 3/4W
5h0

Dome Temp. 22° 1:67%

Focus .....

Dome Temp. .....

Transparency Conditions Excellent - Thin cloud seeing very good as well.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
5h 38m W		2"-3"	0.2-3.47	B8V	30		40/17		Fine
0 00	+26 52	1"-2"	5.72	gK2	10-10-10	G1001-Dc	400/750	Cloud by 73h	Fine
					4/4	no filter			
	9 min @	68°F	in	MW	P-2				
						April 10/72			

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Date Fri-Sat 14/15 April/72 Observer Jn-Bh-Rjd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End	D
35914	HD101501	11 35.8	+34 46	G12	IIaO*	131.5	43°F	23:08	00:02	A	1 44W	3

Dome Temp. 3
Focus
Dome Temp.

Dome Temp. 33° H=76%

Transparency Conditions Cloud & Haze

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1 44W	+34 28	3"-5"	5.3	88V	10-20	Late Type	200/37	cloud (overdevelop)	sc. wk

65

*baked April 10/11

Dome Temp. 3
Focus
Dome Temp.

Date Sat/Sun Apr-1 15/16 '72 **Observer** Bln-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35915	HD104451	11 56.6	+30 06	6-12	IIa-O*	25/.3		22:27	02:15	A	3.3W

86

Dome Temp. 34°F H=85%

Transparency Conditions Very Good - [illegible]

Focus .....

Clouds ~01:45

Dome Temp. 32° H=88%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3 35 W	+29° 48'	3-4	8.7	gF3	10 10-10	Sp. Bin-Blu	800/180	(overdeveloped plate)	Sc. wk

87

*baked April 10/11

Date Sun-Mon April 16/17 **Observer** Hu-Tn **Julian Day**

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35916	HD 135364	15 09.6	48 57	GT2	IIaO*	13/.5		00 44	04:44	A	1.71
35916 T1	Calibration	step wedge	April 17/72	"	- plates 35915, 35916, 35914						
35916 F1	Focus				"	13	40°			B	

Dome Temp. 34°F H=95%

Focus

Dome Temp. 32° H=91%

Transparency Conditions very good but hazy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2 57W	48 47	2"-3"	7.2	K2III	10-9-10	Hd Vis Bin	400/170	overdevelop	SC. WK
								20 MIN @ 68°F IN D-76	
	in in / set 0-1				4/4	no filter			GOOD

89

* baked April 10/11

Date Mon-Tues April 17/18 Observer Hu-Tn / Tq Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35917	HD 87504	10 00.3	-12° 35'	G12	IIIaO*	131.5		20 27	21 05	A	0 28W
35917 T1	Calib	step wedge		"	"	plates	35917 - 35920				
35918	HD 130841	14 49.2	-15 56	"	"	91.5	44°F	02:10	02:30	C	1 59W
35919	HD 152614	16 49.3	+10 20	"	"	131.5	"	02:38	03:08	B	0 16E
35920	HD 156729	17 14.2	+37 24	"	"	"		03:11	03:29	C	0 19E
										A	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 38°F H=75%

Focus .....

Dome Temp. 35° H=81%

Transparency Conditions Some cloud
lots of cloud

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0 28W	−12 48	3-5"	4.51	B8V	10-10-10	Sp Bin-Hg	200/80		FINE
					9.0	min @ 45°F IN mag p-2			
1 09W	−15 48	3-4"	2.89	Am	10-9-9	Sp Bin-Hg	200/90	cloud	FINE
0 16E	+10 19	1-2	4.30	B8V	10-9-9	"	200/90	"	SC. STR
0 19E	+37 25	"	4.79	A2V	15-15	"	200/40		V. SC. STR
								← [THERE ISN'T]	
								If no comp. I know why, but too late. Filter was in wrong. Prob. did it backwards.	

91

Baked April 10-11

Date Thu Fri April 20-21, 1922 **Observer** Sy-Ri / Hu-Ri **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35921	HD 74280	08 38.0	+03° 45	G-12	IIaO B	13/.5	48°F	20:00	20:18	A	01°00W
35922	HD 73262	08 32.4	+06° 03	G-12	IIaO B*	"		20:22	20:35	B	
35923	β CMi	7 21.7	+8 29	"	"	9/.5		20:43	21:00	C	03°50W
35924	"	"	"	"	"	"		21:02	21:12	A	03°06W
35925	"							21:14	21:24	B	03°38W
35926	"	"	"	"	"	"		21:26	21:38	C	03°50W
35927								21:39	21:50	A	04°05W
35928	"	"	"	"	"	"		21:51	22.04	B	04°17W
35929	HD 91120	10 26.08	−13° 4.5'	G-12	IIaO B*	13/.3		22:10	23:35	C	05°15W
35930	48 Leo B	15 52.5	−13° 59	"	"	"		23:50	00:27	A'	00°35E
35930 T1	calibration	step wedge			IIaO B*						
35931	HD 149930	16 32.7	+3 40 01	"	IIaO B*	13/.5		00:33	04:17	B	01°03W
35932	HD 161868	17 42.9	+2 45	"	"	9/.5		04:22	04:36	C	00°10W

Dome Temp.
Focus
Dome Temp.

Dome Temp. 36°F 53%

Focus .....

Dome Temp. 32°F 55%

Transparency Conditions ..... good .....

9 la clocks were out

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01h16W	+03° 35		4.10	B3 I	10-10-10	Spect. Bin.	80/40		SL. STR
	+05 55'		4.14	A0 II	10-10-10	"	80/40		FINE
03h15W	+08° 27'		28	G5	15-15	Sy	40/20		SL. STR
03h36W			"	"	15-15		"		SL. STR FINE -
03h38W					15-15		40/21		SL. STR
03h52W			"	"	15-15		40/19		FINE
04h05W					15-15		40/18		FINE
04h17W					15-15		40/18		FINE
02h45W	-13° 24'		5.5	B7	10-10-10	"	200/55	increase the gain by 400 next time not enough exposure for this star	FINE
01h50E	-14° 03		4.7		10-10-10		200/70		SL. STR
								2 nights @ 61° F/ 100% RH	
01h23W	+33° 57'	3"	6.9	K5 III	12-6-6-12	Hd Vis Bin	400/225	Increased exposure time for comparison to 36sec - Hu	V. SL. UNK
00h30W	+020 50'	3"	3.79	A0 V	15-15	Sp. Bin Bin	40/20	light to slit was on all night but not a beginning	FINE

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* Baked April 18/19

Date April 24/25 '72 mn/tue Observer Hu/Bslu-Wicks Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35933	HD 79469	9 09.2	+2 44	G12	IIaO*	9/.5	41°F	20:37	20:52	A
35934	HD 110411	12 36.8	+10 47	"	"	"		21:22	22:20	B
35935	HD 130109	14 41.2	+2°19	"	"	"		22:28	22:50	C
35936	HD 130841	14 49.2	-15 56	"	"	"		23:00	23:11	A
35937	HD 141513	15 44.4	-3 07	"	"	"		23:39	23:53	B
35938	HD 141456	15 44.1	+13 01	"	"	13/.3		00:02	02:46	C
35939	HD 152614	16 49.3	+10 20	"	"	13/.5	36°F	02:51	03:06	B
35940	HD 164284	17 55.3	+4 22	"	"	"		03:11	03:21	A
35941	HD 164353	17 55.6	+2 56	"	"	"		03:43	03:55	C
35942	HD 164577	17 56.7	+1 18	"	"	"		03:59	04:17	B
35943	HD 164768	17 42.9	+2 45	"	"	"		04:21	04:31	A
35943T1	calibration Step Wedge for plates 35933-943				IIa-O					

Dome Temp. 3
Focus
Dome Temp. 2

Hour Angle End

Dome Temp. 30°F @ 62.5%

Focus .....

Dome Temp. 26° H=62%

Transparency Conditions Very Good

Blankety-Blank-Blank Mirrors !!!!

T.S.F. 12-12-12

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 40W	+2 34	3-5	3.82	B9.5V	12-12-12	Sp. Bin Bln	40/20		FINE
00 22E	+10 28	4-6	4.97	A1V	12-12-12	Sp Bin Bln	200/90	About 1" broken off — in separate slot in plate box	FINE
01 59E	+2 06	4-6	3.74	A0V	12-12-12	Sp Bin Bln	40/20	→ LOST PIECE IN DARKROOM	FINE
01 41E	−15 48	3-5	2.89	Am	15-15	"	40/20		SL. WK
01 59E	−3 15	3-5	3.50	A0V	15-15	"	40/17		
00 49W	+12 55	6	6.80	A0	10-12-12	"	900/360		FINE
00 10W	+10 18	4	4.30	B8V	12-12-12	"	80/36		FINE
00 30E	+ 4 26	4-5	4.79	B2Ve	12-12-12	"	80/36	~1" broken off } fogg	FINE
00 07E	+ 3 02	4-5	4.0	B5	12-12-12	B std. Vel	80/36		FINE
00 14W	+ 1 25	4-5	4.46	A1V	12-12-12	Sp Bin-Bln	80/~36		FINE
00 41W	+ 2 50	4-5	3.79	A0V	12-12-12	"	80/36		
2nd. in 0-76 / 15 min @ 64°F									

Date April 25/26 '72 Tue/Wed Observer Bln Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35944	HD87504	10 00.3	-12 35	G-12	IIa-O	13/1.5		20:06	20:30	A	05 24 W
35945	HD73262	08 32.4	+6 03	"	"	"		20:36	20:54	B	02 18 W
35946	HD74280	08 38.0	+3 45	"	"	"		20:57	21:33	C	02 57 W
35944-46 T1 For		Step	Wedge	for	35944-46			IIa-O			

Dome Temp. 30°F H=52%

Focus .....

Dome Temp. 28° H=60%

Transparency Conditions Very Good but clouds moving in at 9 6

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:30	A	0 0 25W	-12° 48'	5	4.51	B8V	12-12-12	Sp Bin-Bin	80/40		FINE
2:54	B	0 2 18W	+5 56	3-8	4.14	A0V	12-12-12	"	80/44	Clouds	FINE
3:33	C	0 2 52W	+3 36	3-6	4.10	B3V	12-12	"	80/40	Clouds getting thicker	(GUIDING) FINE
						15 m @	68°F	in D-7x			

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* baked April 25/26

Date April 26/27/32 Wed-Thurs **Observer** Tn - Bln **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35947	HD 87504	10 00.3	+2 35	G/2	D O*	13/5	45°F	19:58	20:16	A
35948	HD 107325	12 18.8	+27 11	"	"	13/3		20:20	23:24	B
35949	HD 153649	16 55.6	+35 01	"	"	25/.3	40°F	23:38	2:38	C
35949 T1	Col stop	wedge			"					
35950	HD 114558	15 44.1	+13 01	"	"	13/.5		02:41	04:27	A
35950 F1	Focus			"	"	13	37			F

Dome Temp. 3
Focus
Dome Temp.

Hour Angle End
0 16W
31 W
0246W

Dome Temp. 33°F H= 57%

Transparency Conditions Excellent

Focus

Dome Temp. 26°F H= 57%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0 16W	−12° 49′	3"-5"	4.51	B8V	14-18	Sp Bin - Blu	80/35		(GUIDING) FINE
01 10W	+26 54	1"-3"	6.72	gk2	12-12½	G1001 - Dc	400/531	broken = 4" BROKEN	FINE
0016E	+34 59	3	8.39	A2	12-12-12	Her X	800/235	(22)	U.SL.WK
			Dec	27	Cyn	172	D 76		
0246W	+12 54	2"-3"	6.80	A0	12-12-12	Sp Bin - Blu	800/300		U.SL.WK
					5/5	no filter			GOOD

99

* Baked April 25/26

Date April 27/28 Thurs-Fri **Observer** Sy - Ts / **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35951	AX mon	06 25.2	+5 56	G43	IIIaO*	13/3	47°	20:00	20:36	A	4.1 W
35952	B CMi	07 21.7	+8 29	G12	"	91/5		20:50	20:58	C	3.4 W
35953								21:00	21:10	A	3.2 W
35954								21:11	21:21	B	4.3 W
35955		29.7	-13 19					21:22	21:32	A	4.4 W
35956	HD 91120	10 26.1	-13 05	"	"	13/3	43°	21:45	23:09	C	2.4 W
35957	48 Leo	15 52.6	-14 00	"	"	"		23:16	23:46	B	2.2 E
35957 Tl	Cal	step wedge			"					C	
35958	48 Leo	15 52.6	-14 00	G12	"	13/3		23:47	00:15	C	1.3 E
35959	HD 144064	15 58.9	+11 42	"	"	"	39°	00:24	04:24	A	2.1 W

Dome Temp. 34° 54%

Focus

Dome Temp. 27° 54%

Transparency Conditions Excellent

Haze

Ending Time E.S.T	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20 36	A	4 12W	+6 00	2-3"	7.1	B	5-7		400/27	bright sky	SL. WK
20 57	C	3 40W	+8 26	"	2.7	B	16-16		40/18		FINE
21 10	A	3 52W		"			16-16		40/18		FINE
21 31	B	4 03W		"			16-16		40/18		FINE
21 32	A	4 14W		"			16-16		40/18		FINE
21 09	C	2 48W	-13 19	3-4	5.5	B	11-11-11		400/105	some cloud	SL. WK
21 46	B	2 02E	-14 04	"	4.7	B	11-11-11		200/60		FINE
				28 APR/72				MWP-2	19.0 min @ 68°F		
21 15	C	1 33E	-14 04	3"	4.7	B	11-11-11		200/60		FINE
20 12	A	2 31W	+11 37	1-2"	7.1	K4III	1H1-11	Vis Bin Hd	400/160	cloud	SL. WK
								SECOND ART ALUMINIZED APRIL 28			
		- COMPARISON				I	S	STILL A BIT WEAK			

*baked April 25/26
**baked April 28

Date April 28/29 '72 Fri/Sat Observer Bln-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35960	HD 73262	08 32.4	+6 03	G-12	IIa-O	13/1.5	55°F	19:52	20:00	A	01 35W
35961	HD 79469	09 09.2	+2 44	"	"	"		20:02	20:08	B	01 05W
35962	HD 87504	10 00.3	-12 35	"	"	"		20:10	20:22	C	00 38W
35963	HD 104451	11 56.6	+30 06	"	IIa-O*	25/1.3		20:27	21:53	A	00 04W
35964	HD 107325	12 15.3	+27 11	"	"	13/1.3		21:54	00:36	B	02 36W
35964 T1	Col step wedge		180 sec		IIa O	For	35960-62, 65, 67, 69				
T2	Col step wedge		"		IIa Ob*	For	35963-64				
35965	HD 130104	14 41.2	+02 19	"	IIa-O	* 13/1.5		00:41	00:47	A	00 10W
35966	HD 141458	15 44.1	+13 01	"	IIa-Ob**	13/1.5	49°F	00:50	02:46	C	01 11W
35967	HD 152614	16 49.3	+10 20	"	IIa-O	13/1.5		02:49	02:57	B	00 17W
35968	HD 154731	17 00.3	+34 56	"	IIa-Ob**	13/1.5		03 00	03:30	C	00 29W
35968 T3	Col step wedge		180 sec		IIa-Ob**	for	35966, 68				
35969	HD 170073	18 23.5	+58 45	"	IIa-O	"		03:33	03:45	A	00 26E
35970	HD 164577	17 56.7	+1 18	"	"	"		03:49	04:01	C	00 13W
35971	HD 164353	17 55.6	+2 56	"	IIa Ob**	"		04:04	04:10	B	00 23W
35972	HD 156729	17 14.2	+37 21	"	"	"		04:13	04:19	A	01 15W

Dome Temp.
Focus
Dome Temp.

Dome Temp. 50 F H=40%

Focus .....

Dome Temp. 37° H=60%

Transparency Conditions ..... very good/-hazy

Brilliant Aurora from ~1h-1.35h

Much Faster ie secondary Aluminize

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
8:30	A	01 35W	+5 54	2-3	4.14	A0 V	12-12-12	Sp. Bin-Bln	40/22		FINE
10:07	B	01 05W	+2 30	3-4	3.82	B9.5 V	12-12-12	"	40/20		FINE
11:22	C	00 30W	-12° 51	"	4.51	B8 V	12-12-12	"	40/20		FINE
12:53	A	00 04W	+29 46	2"	8.7	gF3	12-12-12	"	800/250		FINE
10:36	B	02 30W	+26 50	1-3"	6.72	gK2	12-12-12	"	200/550	Cloud ~0h	STRONG
6:7	7										
		IN SPOTTING BOX UPSIDE-DOWN?									
9:47	A	00 15W	+2 04	2"	3.74	A0 V	18-18	"	40/20		FINE
1:46	B	01 11W	+12 53	5-7	6.80	A0	12-12-12	"	400/360		SC. STR
2:57	C	00 17W	+10 16	5-7	4.30	B8 V	12-12-12	"	40/20		FINE
3:30	C	00 39W	+35 54	4-6	6.07	A5 V	12-12-12	"	200/90		U.SL. STR
17:45	A	00 26E	+58 51	2-3"	4.97	A1 V	12+12	"	40/20	PLATE IN UPSIDE-DOWN?	FOCUS
9A:01	C	00 13W	+1 22	3-4	4.46	A1 V	12-12-12	"	40/20	Short Plate	FINE
04:40	A	00 23W	+3 01	"	4.0	B5 I	13-10-18	B Std'Vel	40/17		SC. STR
2:19	A	01 15W	+37 24	"	4.79	A2 V	18-18	Sp. Bin-Bln	40/18		SC. STR

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* baked April 29/72

Date April 29/30 '72 Sat/Sun Observer BIn-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35973	+35° 2899	16 57m1	+35 02	G-43	IIaO*	13/3		23:03	01:13	A	01 31E
35974	HD 153451	16 54.6	+34 52	"	"	"		01:15	02:07	B	00 35E
35975	HD 153649	16 55.6	+35 01	"	"	"	51°F	02:10	03'01	C	00 20W
35976	+35° 2901 (-)	16 58.2	+35 36	"	"	"		03:20	04:26	A	01 43W
35976T1	Cal Step wedge		180sec		IIIaO*						

Dome Temp.
Focus
Dome Temp.

Dome Temp. 44° H=44%

Transparency Conditions Very Good - Slt Haze

Focus .....

Dome Temp. 38° H=44%

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
13	A	01 30E	+34 54	1"-2"	~8.9	~~A~~ F	4-4-4	Her X	800/110	(23)	SL. WK
37	B	00 35E	+34 49	1"-2"	8.79	GO	4-9-	"	800/120	(21)	(GUIDING) FINE
01	C	00 20W	+34 57	1-2	8.39	A2	~~4-4-4~~	"	800/115	(22)	SL. STR FINE
26	A	01 43W	+35 34	"	8.6	F	4-4-4	"	800/115	(48) Check Coord.	FINE

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† baked April 29

Date April 30/May 1 sun-Mon Observer Tn-Bh Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35977	HD141458	15 44.1	+13 01	6 12	IIaO†	13/5	57°	21 43	23:09	A	2 19E
35978	HD153907	16 56.5	+34 29	G-43	"	13/13		23 19	23 53	B	2 46E
35978 T1	Cal step wedge 180sec				"	(not marked) ✓					
35979	+34° 2880	16 56.5	+34 31	"	"	"		23 55	02 17	C	0 21E
~~——~~	HD154274	16 59.4	+34 40	"	"	"		02:25	~~——~~	A	
	Cal 35960 – 35979 : 15 m @ 68° F in 2-76										

Dome Temp.
Focus
Dome Temp.

Dome Temp. 54° H=37%

Focus

Dome Temp. 50° 52½

Transparency Conditions Good but haze. cloud by 2:20

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:09	A	2 19E	+12 51	1-½"	6.80	A0	12-12-12	Sp Bin-Bkg	400/180		(GUIDING) FINE
3:53	B	2 46E	+34 26	1-2	7.83	G5	4-9-4	Her X	900/130	(17)	(GUIDING) U. SL. WK
2:17	C	0 21E	+34 28	2"	~8.5	F	4-9-4	Her X	800/115	(18) cloud	U. SL. WK
	A				7.95	F0	4-	"	900	(24) cloud	

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* baked April 29

Date May 3/4 Wed-Thurs Observer D-Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
35980	HD 107325	12 15.3	+27 11	G12	D.O*	131.3	56°F	21:56	23:22	A
35981	HD130109	14 41.2	+2 19	"	"	131.5		23:25	23:35	B
35982	HD 141513	15 44.4	-3 07	"	"	"		23:40	23:54	C
35982 Ti	Cal	Step wedge		1805a						

Dome Temp.
Focus
Dome Temp.

Hour Angle End
01 35W
00 38E
01 21E

Dome Temp. 48° 70%

Transparency Conditions Very hazy

Focus .....

Dome Temp. .....

Coding Time E.S.T	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3 22	A	01 35W	+26 51	3-4"	6.72	gK2	12-12-12	Dc 61001	200/100		O.SL.WK
3 35	B	00 38E	+2 07	4"	3.74	A0V	17-17	SpBin-Blk	40/18	broken 1" off	FINE
3 4	C	01 21E	-2 14	"	3.50	A0V	17-17	"	40/18		FINE

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* baked April 29

** baked May 4/5

Date May 5/6 Fri.-Sat **Observer** Tu-Waterloo **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35983	HD 101501	11 35·8	+34 46	G12	IIaO *	13/5	51°F	20:14	20:50	A	00 12E
35984	HD 101013	11 32·5	+51 10	"	"	"		21:56	22:26	B	01 22W
35984 T1	Cal step wedge for plates			35983 - 35988							
35985	HD 106690	12 11·1	+41 13	G12	IIaO *	13/5		22:30	00:40	C	03 04W
35986	HD 135722	15 11·5	+33 41	"	"	"	49°	00:52	01:02	A	00 28W
35987	HD 139195	15 31·7	+10 21	"	"	"		01:13	02:03	B	01 07W
35988	HD 157999	17 21·5	+4 14	"	"	"		02:08	02:36	C	00 09E
.	HD 168656	18 15·8	+3 20	"	IIaO **	"		02:41		A	

Dome Temp.

Focus

Dome Temp.

1) Fe comp. could still be somewhat stronger (1½x3?) 110?

Dome Temp. 46°F 34% Transparency Conditions Excellent

Focus

2) Try to get a focus plate the next clear night.

Dome Temp. 38° 52%

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0:50	A	00 12E	34° 26'	2"	5.3	G8 V	15-15-15	Late Type	200/140		FINE
2:26	B	01 28W	50 50	2"-4"	6.0	K1 p	15-15-15	"	200/180		(GUIDING) FINE
0:40	C	03 04W	+40 52	1"-3"	7.4	M0 III	15-15-15	Late type	200/240	Some cloud	FINE
1:02	A	00 28W	+33 27	1½-2"	4.42	G8 III	22-22	Wide Visible	40/30	(LOOKS OK)	FINE
2:03	B	01 07W	+10 10	"	5.4	K1 p	15-15-15	Late type	200/160	check Sp (I think it's A or F)	FINE
2:36	C	00 09E	+4 14	1½-3"	4.4	K3 II	22-22	"	40/34	broke in box	FINE
	A				5.76	G8 III	15-	Wide Visible	200/	drive stopped. Cloud too	

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* baked May 4/5

Date May 7/8 Sun-Mon Observer Sy-Tm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35989	4 Her	15 52.1	+42 51	G12	IIaO*	13/15	48°F	22:12	22:44	A	02 24
35990	"	"	"	"	"	"		22:46	23:18	B	04 58
35991	"	"	"	"	"	"		23:20	00:02	C	06 52
35990T1	Cal step wedge 180 sec				"						
35991F1	Focus			G12	"	13	47°			B	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 40 72%

Focus

Dome Temp. 38 77%

Transparency Conditions Clearing by 22h (good)

Reading Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:44	A	02 24E	+42 41	4"6'	5.5	B*	15-15-15	Be star	200/100		SC. STR
3:18	B	01 50E	"	4"7'	"	"	15-15-15	"	200/100		(GLIDING) SC. STR
4:02	C	01 06E	"	"	"	"	15-15-15	"	200/80	cloud by 0h overcast	SC. STR
						35+93 -	35991:	nwp-2/		9.0 min @ 60°E	
	b						5/5	no filter			GOOD

* baked May 4/5

Date May 10/11 Wednesday **Observer** Sy **Julian Day**

Dome Temp. Focus Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
35992	Bcmi	7h 21.7	+8° 29	G-12	IIa-O*	9/15		20:08	20:16	A	1h 4m
35993	"	"	"	"	"	"		20-20	20-27	B	
35994	"	"	"	"	"	"		20-30	20-41	C	
35995	"	"	"	"	"	"		20-43	20-50	A	
35996	HD 91120	10h 28.5m	−13° 19.9	"	"	13/13		21-30	22-18	B	2h 4m
35997	48 L.b	15 52.6	−13° 59.5	"	"	"	31°/49%	22-37	22-51	C	
35998	"	"	"	"	"	"		23-00	23-21	A	
35999	"	"	"	"	"	"		23-25	23-44	B	
36000	"	"	"	"	"	"		23-47	00-02	C	
36001	"	"	"	"	"	"		00-05	00-19	A	
36002	"	"	"	"	"	"		00-22	00-41	B	
36003	"	"	"	"	"	"	34°/52%	00-44	01-09	C	
36004	"	"	"	"	"	"		01-11	01-35	A	1h 4m
36005	"	"	"	"	IIa-O	"	34°/53%	01-45	02-42	A	1h 2m
36006	HD 208822	21h 52.9	+64° 50.7	"	"			03-41		C	1h
36005T.	calibration										9.0 m

Dome Temp. 38°F 48% Transparency Conditions ... good

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3h 48m	+8°28'	2-3"	2.7	B	15-15	Be	40/20	hazy	SL. STR
					15-15		40/20		SL. STR
					15-15		40/10		V. SL. STR
					30		40/18		V. SL. STR
2h 40m	-13° 20'	"	5.5	"	11-11-11		400/115		FINE
			4.7	"	11-11-11		200/61		SL. STR
			"		11-11-11		200/62		STRONG
		1-2"	"	+2°	11-11-11		200/60		SL STR
		"			11-11-11		200/60		SL. STR ~~FINE~~
					16-16		200/61		SL. STR ~~FINE~~
					16-16		200/60	(Cirrus)	SL. STR
		4"			16-16		200/60	clouds	SL. STR
0h 38m		5-6"			16-16		200/60		SL. STR
1h 45m		5-8"			16-18		200/60		FINE
	+15° 27'	5	5.0		18		400/	clouds	
9.0	m @ 68° F	-	m.w.p. 2		11 Nov 1972				

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* baked Apr 28
** baked May 11

Date May 11/12 Thursday **Observer** McL **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36006	HD100179	11 26.6	+24 52	G-12	IIaO6*	13/0.3	+	20 20	22 33	A
36007	HD107325	12 15.3	+27 11	"	"	"	54°F	22 37	23 54	E
	~~HD144054~~	~~15 58.9~~	~~+11 42~~	"	IIaO6**	"	53°F	24 00		C
36008	HD149730	16 32.7	+34 01	"	IIaO6**	"	50°F	00 26	02 29	A
36009	HD171767	18 31.5	+04 52	"	"	"		02 36	04 14	E
36009F	Focus			"		13				B

Dome Temp. 40°F H=50%

Focus

Dome Temp. 36°F H=57%

Transparency Conditions excellent, but some cloud along SW horizon. Thin cirrus intermittently from 20h until ~02h

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2h05W	+24 31	2"-3"	9.02	K4III	6-6-6 6-6-6	SSV	300/350		SL. WK
2h37W	+26 51	3"-4"	6.72	gK2	12-12-12	B/n Spec. Bin	400/500	NO PLATES KEPT FOR CALIBRATION	FINE
			7.1	K4III	12-	Hd Vis. Bin. Prog.	800/	star much fainter than 7m Counting more slowly than AN00179(9m) above. Quit at 21	
00h56W	+33 56	~2"	6.9	K5III	12-12-12	Hd Vis. Bin. Prog.	800/400		FINE
03h42W	+05 00	2"-3"	6.7	K0III	12-12-12	"	300/400		FINE
					6/6	no filter			CENTRE TO DIDLET

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* baked May 11

Date May 12/13 Friday **Observer** McL **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36010	HD107325	12 15.3	+27 11	G-12	IIaO6*	13/0.3	-	20 16	21 10	A
36011	p Leo	10 31.3(1972)	+9 27.1(1972)	"	"	9/0.5	62°F	21 16	21 25	B
36012	HD 118411	12 36.5	+10 47	"	"	"	-	21 30	21 49	C
36013	HD130109	14 41.3	+02 19	"	"	"	-	21 53	22 03	A
36014	HD141453	15 44.1	+13 01	"	"	13/0.5	59°F	22 08	22 58	B
36015	HD144064	15 59.9	+11 42	"	"	13/0.3	58°F	23 04	01 37	C
36016	HD149730	16 32.7	+39 01	"	"	"	-	01 [illegible]	03 56	A
36017	HD152614	16 49.3	+10 20	"	"	13/0.5	55°F	04 00	04 01	C
36017F1	Focus			G-12		13				E
36017T1	Calibration Step Wedge			180sec						

Dome Temp. [illegible]
Focus
Dome Temp. [illegible]

Hour Angle End	D
[illegible]	
02 44	
[illegible]	
01 36	
[illegible]	
[illegible]	
[illegible]	
01 34	
[illegible]	

Dome Temp. 45°F H=49%

Focus .....

Dome Temp. 40°F H=56%

Transparency Conditions Hazy, thin stratus. Much cloud along SW horiz 2000. Clear by 2230

PLEASE TAKE A FOCUS PLATE

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 23E	+26 50	~2"	6.72	gK2	12-12-12	Pln Spec Bin.	400/500	Seeing got to good	FINE
0200W	+09 30	"	3.8	B0p	18-18	Mtl Pb comp.	40/19		SL. STR
00 13W	+10 27	"	4.97	A1V	12-12-12	Bln Spec Bin	200/90		FINE
01 36E	+02 04	"	3.74	A0V	18-18	"	40/19		FINE
01 44E	+12 53	2"-3"	6.80	A0	12-12-12	"	400/190		FINE
00 41W	+11 34	"	7.1	K4III	12-12-12	Mtl Vis Bin Prog.	350/400	HD comp use m_{pg} = 5.26	V.SL.WK
02 27W	+03 57	1"-2"	6.9	[illegible]	12-12-12	"	500/400	moments of exposure (+2") setting HD comp use m_{pg} = 5.26	V.SL.WK
02 23W	+10 17	~2"	4.3	[illegible]	18-18	Bln Spec Bin	40/19		FINE
					12/5	No filter		1" broken- transparent	
	Dew 15	May 17 2 -		0-96 for 15		m @	68° F		SL. STRKS TO SW

PRIMARY ALUMINIZED

MAY 16/17 - LOST 1 CLOUDY NIGHT

* baked May 11 12

Date May 17/18 Wed-Thurs **Observer** Sg-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36018	48 Lib	15 52.5	-13 59	G12	IIaO*	13/3		00:08	00:22	A	00 09E
36019	"	"	"	"	"	"		00:23	00:33	B	
36020	"	"	"	"	"	"		00:35	00:45	C	
36021	"	"	"	"	"	"	62°	00:48	00:58	B	11 23W
36022	"	"	"	"	"	"		01:00	01:15	A	00 45W
36023	"	"	"	"	"	"		01:17	01:31	B	01 06W
36023 T1	Col step wedge for plates 36018 - 36027				"			180sec			
36024	48 Lib	15 52.5	-13 59	G12	IIaO*	13/3		01 32	01:50	C	01 24W
36025	"	"	"	"	"	"		01:51	02:11	A	01 49W
36026	"	"	"	"	"	"		02:13	02:41	B	
36027	"	"	"	"	"	"		02:48	03:10	C	
36027 T1	Focus			"	"	13	59°			B	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 56°F H=81%

Transparency Conditions Clear but hazy after 04'12d

Focus

Dome Temp. 50 F 89 %

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 09E	-14 04	2-3"	4.7	Be	10-12-12	Be	200/51		FINE
	"	"	"	"	12-12-12	"	200/53		FINE
	"	"	"	"	20-20	"	200/52		FINE
00 29W	"	3"	"	"	20-20	"	200/54		FINE
00 95W	"	3-4'	"	"	20-20	"	200/52	balance of	FINE
01 00W	"	"	"	"	20-20	"	200/52	in balance	FINE
	new p-2	/9	m	@ 62° F			18 May 1972		
01 20W	-14 04	4-5"	4.7	Be	20-20	Be	200/52		FINE
01 40W	"	"	"	"	20-20	"	200/52		FINE
	"	"	"	"	20-20	"	200/52		FINE
	"	3-4"	"	"	20-20	"	200/52	dome dripping	FINE
	m m f w/ cat				6/6	no filter			GOOD

Date May 18-19, 72 Thurs-Fri **Observer** B In-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36028	HD 104451	11 56.6	+30 06	G12	IIaO*	25/.3		21:09	22:26	A
36029	HD 191458	15 44.1	+13 01	"	"	131.5		23.03	00:31	B
36030	HD 226868	19 54.6	+34 56	"	"	25/.3		00:39	03:39	C
36030T1	Calibrate step wedge			"	IIIaJ*	for plates 36029 - 36031				
36031	HD 201433	21 04.4	+29 48'	G12	"	9/.7		03:43	04:03	A
36031F1	Focus			"	"	1	61°F			B
36031T1	calibration step wedge for # 36028							1.20 S		

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 55° H=70%

Focus .....

Dome Temp. 52° H=83%

Transparency Conditions ..... Good but hazy & cirrus

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 55	+29 46	2-4	8.7	gF3	15-30	Sp Bin-Blu	800/137	Intermittent cloud ~22:00 ← OVERDEVELOP	* WEAK (GUIDING) FINE
00 13W	+12 53	2-3"	6.80	AO	15-15-15	"	800/550		
00 48E	+35 11	1"-2"	9.74	RG1b	15-15-15	Sp Bin-Blu	800/340	Cyg X-1	* SL. WK
	180 sec		DW	D-76 / 15 m @ 68°F				19 May/72 20 m @ 68°F	
01 34E	+30 07	1-2"	5.6-5.8	AO	15-15-15	"	200/30	WEAK COMP.	FINE
	in in/out out				6/6	no filter			VERY SL. CENTRC TO R
	DW.	20 m @ 68°F			in D-76				

* COMPARISONS LOOK SOMEWHAT OUT OF FOCUS; ALSO THE BACKS OF PLATEHOLDERS A & C WERE MATED WITH THE OTHER SIDE OF COMP.

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* baked May 11/12
** baked May 18/19 (baked May 20 after exp.'s big error)

Date Fri May 19-20/72 **Observer** HH **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36032	Supernova NGC 5253	1972 13 38.3	1972 −31 31	G43	IIaO*	25/0.3	68°F	20 57	22:47	A
36032T1	Col step	wedge	for plate 36032	"	"	180 sec				
36033	HD 149064	15 58.9	+11 42	G12	IIaO**	13/3		23:06	00:20	B
36034	HD 170200	18 23.1	+06 08	G12	IIaO**	13/15		00 24	00 96	C
36034T1	Col step	wedge			IIaO**	For plate		36033-41		
36035	HD 180553	19 11.9	+27 17	G12	"	13/1.5		00·50	01 26	A
36036	HD 182255	19 18.7	+26 04	"	"	"		01 32	01·44	C
36037	HD 193964	20 18.0	+61 56	"	"	"		01 52	02 16	B
36038	HD 186791	19 41.5	+10 22	"	"	"		02 22	02 28	C
36039	HD 170200	18 23.1	+6 08	"	"	"		02 33	02 59	A
36040	HD 180553	19 11.9	+27 17	"	"	"		03 01	03 39	B
36041	HD 206778	21 39 3	+9° 25′	"	"	"		03 44	03 48	C

Dome Temp. 63° H=54%

Focus

Dome Temp. 56° H-73%

Transparency Conditions Excellent

→ ALSO, FOCUS LOOKS BAD developed 12 min · MWP2. Sp. shows weak continuum, Hg lines and a few wk em lines from star.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:47	A	00 44W	−31 26	3"	~9	?	4-4-2		800/75	Found object by setting first on 1 cm · used Orion 4a eyepiece	
								mwp-2/12m			———
4 20	B	00 09E	+11 33	2"-3"	vis. 7.1	K4 III	15-14-14	Vis Bin-Hd	800/255	some cirrus cloud from SW.	SL.WK
0 46	C	0206E	+6 16	"	5.7	B8 III	15-15-15	Bright B Binary	200/90		FINE
			180 sec					D-76	15m @	68° F	———
1 10	A	0215E	+27° 30'		6.3	B5 III	15-15-15	Bright B Bin	200/90		FINE
1 44	C	0202E	+26 18		4.9	B8	15-15-15	B std vel	200/90		FINE
2 10	B	0230E	+62 12	2"	5.6	B9V	15-15-15	Bright B Binary	200/90		FINE ~~D.L. LOW~~
2 28	C	0142E	+10 37	2"-3"	4.15	K3 II	20-20	Std. Vel.	40/28		V.SL.WK
1 59	A	0007W	+6° 15'	"	5.7	B8 II	15-15-15	Bright B Bin	200/90		FINE
1 19	B	0000	+27° 30'	"	6.3	B5 III	15-15-15	"	200/90		FINE
1 49	C	0220E	+9 48	"	4.0	K2 Ib	20-20	std vel	40/28	Double exp with 36052 I guess	———

125

* baked May 18/19
** unbaked

Date Sat May 20-21/72 **Observer** Tu-Hb **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36042	HD112413	$12^h\ 51^m.2$	+38°51	G12	IIaO*	13/1.5		20 44	20 48	A
36043	HD112185	12 49.6	+56 30	G12	IIaO*	13/1.5	67°	20 53	20 54	B
36044	HD107325	12 15.3	+27 11	G12	IIaO*	13/13		21 13	22:27	C
36045	HD170200	18 23.1	+6 08	"	"	13/1.5		22:31	23:23	A
36046	HD182255	19 18.7	26 04	"	"	"	64°	23:27	23:47	B
36047	HD180553	19 11.9	+27 17	"	"	"		23 51	00:47	C
36047T	Cal step wedge ..180 sec				"	for plates		36042-50		
36048	HD193964	20 18.0	+61 56	G12	"	13/1.5		00 51	01:19	A
36049	HD186791	19 41.5	10 22	"	"	"		01 25	01:33	C
36050	HD170200	18 23.1	+6 08	"	"	"	61°	01 37	02:13	B
36051	HD180553	19 11.9	+27 17	"	IIaO**	"		02 18	03:10	C
36051T	Cal step wedge		180sec		"	for plates 36051-				

Dome Temp. 57° H= 73%

Focus .....

Dome Temp. 53° H= 83%

Transparency Conditions ..... Part cloud – Haze

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0031E	+38 31	4-7'	2.9	B9.5 pv	20-20	Var. Apt's (Hb)	40/18		FINE
0022E	+36° 10'	"	1.8	A0p	20-20	"	40/18		FINE
0145W	+26 49	1"-3"	6.72	gk2	15-15-15	sp B-A - B-A	400/530		FINE
0325E	+ 6 14	2-3"	VIS 5.7	B8 III	15-15-15	Bright B Bin	200/90		FINE
0357E	26 16	"	4.9	B8	20-4-15	B std vel	200/90		(GUIDING) FINE
0250E	+27° 27'	"	6.3	B5 III	15-15-15	Bright B Bin	200/90		FINE
					D+76 / 15m @ 68° F				—
0322E	+62° 13'	2"-4"	5.6	B9 V	15-15-15	Bright B Bin.	200/100	broken 2" off	FINE
0234E	—	"	4.1	K3 II	20-20	Std. Vel.	40/28		FINE
0035E	+6 14	2-3"	5.7	B8 III	15-15-15	Bright B Bin	200/100		FINE
0027E	+27 28	3"-4"	6.3	B5 III	15-15-	"	200/120		FINE

12 9

* baked May 20/21
** baked May 11/12

Date Sun-Mon May 21-22 /72 **Observer** BL-TA **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36052	HD 104451	11 56.6	+30 06	G12	IIaO*	25/3	71°	21:04	00 14	A	
36053	AO1414458	15 44.1	+13 01	"	IIaO	13/5		00 20	01:58	B	
36053T	Cal step	wedge	180 sec		IIaO						
36054	HD 170073	18 22.5	+58 45	"	IIa-O**	13/5	64°F	02:02	02:16	C	
36055	HD 154431	17 00.3	+34 56	"	IIa-O**	9/5		02:19	03:01	A	
36056	HD 201433	21 04.4	+29 44	"	IIa-O	9/9	64°F	03:05	03:51	C	

Dome Temp. 58° H=65%

Focus .....

Dome Temp. 56° H=58%

Transparency Conditions Scattered Cumulus at first then hazy.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
10 14	A		+29 46	4-5	8.7	gF3	15-15-	Sp-Bin-Bkn	800/160	Double exp; very bad Oh, yeah	——
01 54	B	01 54W	+12 51	2-4"	680	A0	15-15-15	"	400/297		(GUIDING) FINE
				0-76	/	15 m	@	68°F			——
		00 26E	+58 48	5-10	4,93	A1V	20-20	"	40/21		FINE
		01 40W	+34 52	"	6.07	A5V	15-15-15	"	400/200		(GUIDING) FINE
		01 34E	+30 07	4-6	5.6 5.8	B9V	15-15-15	"	200/200		FINE

129

* baked 22 May

Date Mon-Tues May 22/23 '72 **Observer** me U-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36057	ρ Leo	10 31.3 1972	+9 27.1 1972	G-12	IIaO6 *	9/0.7		20:25	20:29	A	3 42W +
~~36058~~	Supernova in NGC 5253	13 38.3 1972	−31 31 1972	G-43	"	25/0.3		20 48	22:34	B	~~44W~~
36058	4U1731+67	18 31.5	+04 52	G-12	"	13/0.5	57°F	23 01	00 13	A	1.1E
36059	HD 226868	19 54.6	+34 56	"	"	18/0.3		00 34	04	B	1.1E
36059T1	Focus			"		9				B	
36057T1	Calibration Step Wedge			13							

Dome Temp.
Focus
Dome Temp.

Dome Temp. 58°F H=53%

Transparency Conditions ..... Excellent

Seeing poor after ~0100

Focus .....

Dome Temp. 52°F H=57%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 43W	+9 31	2"	3.8	B0 p	5-25	Mod 90 Comp.	40/28	broken 2 per separate slots in box	STRONG
~~0042W~~	~~-3 26~~	11	~~7.53~~	?	1-5-5	Super Nova	~~80~~/110	(another bad one - left grating several)	—
02 36E	+4 58	2"	7.89	K0III	15-15-15	HdVic Bin	400/225		SL. WK
00 11E	+35 09	2"-4"	9.74	B0Ib	15-15-15	fil. - fil.	800/360	seeing not bad Cyg X-1	FINE
					6-6	no filter			GOOD
	D-76 / 15 W @ 68°F								

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* baked May 22/72

Date Tues-Wed May 22/24 '72 **Observer** Sy-Ty **Julian Day**

Dome Temp. 6
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36058 (60)	Sgr I Neb (5313)	13 34.3	-31 09	643	IIaO*	25/.3		21:08	22:32	A	
36059 (61)	48 Lib	15 52.6	-14 00	612	"	13/.3		22:48	22:54	B	
36060	"	"	"	"	"	"		22:57	23:03	C	
36061	"	"	"	"	"	"	71°	23:04	23:10	A	
36062	"	"	"	"	"	"		23:14	23:19	B	
36063	"	"	"	"	"	"		23:21	23:27	C	
36064	"	"	"	"	"	"		23:29	23:35	A	
36065	"	"	"	"	"	"		23:38	23:45	B	
36066	"	"	"	"	"	"		23:48	23:54	C	
36067	"	"	"	"	"	"		23:56	00:04	A	
36068	"	"	"	"	IIaO	"		00:05	00:13	B	
36069 (71)	"	"	"	"	"	"		00:14	00:22	C	
36070 (72)	"	"	"	"	"	"		00:23	00:28	A	
36071	"	"	"	"	"	"		00:30	00:42	B	
36072	"	"	"	"	"	"		00:44	00:52	A	
36073	"	"	"	"	"	"		00:54	1:02	C	

Dome Temp. 68° M=34 Transparency Conditions Excellent

Focus .....

Dome Temp. .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:32	A	00 42W	-31 26	2-3	~9	?	5-5-5	* looked faint to 16.5m on map	800/60	Anson Please Overdevelop the plate maybe MWP2 15min!	WEAK
2:54	B		-14 06	3-5	4.7	Be	15-15-15	Be prog	200/52	[There is a	FINE
3:20	C		"	2-4	"	"	22-22	"	200/53	double image of	FINE
3:40	A		"	"	"	"	22-22	"	200/57	the star as if	FINE
4:00	B		"	"	"	"	22-22	"	200/54	it were a visual	FINE
4:20	C		"	"	"	"	22-22	"	200/53	binary !! Some	FINE
4:40	A		"	"	"	"	22-22	"	200/55	defect in the optical	FINE
5:05	B	0021 E	"	"	"	"	22-22	"	200/52	system.] Sy: may be out of focus.	FINE
5:30	C	0013 E	"	3" 8°	"	"	22-22	"	200/52		FINE
5:54	A		"	6-7°	"	"	22-22	"	200/53		FINE
6:17	B	00 06 W	"	"	"	"	22-22	"	200/67		FINE
6:32	C	00 15 W	"	"	"	"	22-22	"	200/66		FINE
6:48	A		"		"	"	22-22	"	200/65		FINE
7:02	B	0036 W	"	"	"	"	22-22	"	200/66	Triple. 2pc	FINE
7:22	C	0046 W	"	4-6°	"	"	22-22	"	200/68	MANY SMUDGES	FINE
7:42	A		"	"	"	"	22-22	"	200/67	Continued on page	FINE

Pg 133 (2)

* baked May 12

Date May 24 Observer Sy-TM Julian Day Theo. 23

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36074	MWC 347	20h 27m.18	+43° 58'.7	612	IIaO*	20/3		1:25	2:45	B	1m 00E
36075	"	"	"	"	"	"		2:50	3:20	C	1 20E
36076	"	"	"	"	IIaO	"	67°	3:22	3:52	A	1m 46E
36078 T1	Cal step wedge 180 sec				IIaO*	for plates		36058-36067 & 36074-75			
36078 T2	Cal step wedge 180 sec				IIaO	for plates		36068-36073 & 36076			
36076 F1	Focus Test			612	IIaO	20				B	

was 1978

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions .....

Ending Time E.S.T	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2:45		1h 53m E	+44° 14′	2-3	8(?)	CO	15-25		410/310	field drawn	SL SNR
?:?0	C	1 20E	"	"	"	"	15-15-15		400/150	MWC347 looked reddish	FINE
1:12	A	0h 47 E	"	3-5	"	"	15-15-15		400/135	at ~ 1:25 and bluish at Dawn; did not seem as	SL. WIK
										due to atmosphere. Sy.	
			>	moon	-2/9.0			m @ 68°F			
0738	36076										
	B	twilight/dawn					6/6	no filter			GOOD

135

* baked May 24

Date Wed May 24-25 / 72 Observer Re Hd-Tn-Hb Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36077 79	HD 135364	15 09.6	48 57	G12	IIa-O*	13/1.3	67°F	22 50	00:16	A
36078 80	HD 170200	18 23.1	+06 08	G12	"	13/.5		00 22	00:50	B
36079 81	HD 180553	19 11.9	+27 17	"	"	"		00 53	01:21	C
36079 T1	Cal step	wedge	180sec		"	. for plates		36079 – 36088		
36080 82	HD 186791	19 41.5	+10 22	G12	"	13/.5		01 24	01:28	A
36081 83	HD 193564	20 18.0	+61 56	"	"	"	65°F	01 34	01 50	B
36082 84	HD 182255	19 18.7	+26 04	"	"	"		01 54	02 02	C
36083 85	HD 170200	18 23.1	+06 08	"	"	"		02 09	02 29	A
36084 86	HD 180553	19 11.9	+27 17	"	"	"		02 32	03 06	B
36085 87	B Aql	21 26.3	−6 01	"	"	"		03 10	03 16	C
36086 88	HD 193964	20 18.0	+61 56	"	"	"		03 22	03 37	A
36086 T1	Focus Test			"	"	13	64°F			B

Dome Temp. 60 60°

Focus

Dome Temp. 56° 56°

Transparency Conditions Very good

Poor sky at first. Re, Hd, Tn spent 2 hrs experimenting with Phillips Low-Light-Level TV camera. Works fine at 3m, marginally at 4m3 — not good enough.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 s SW	+48° 42′	1"-2"	mo 7.2	K2III	15-15-15	Hd. vis bin	800/200		J.SC. WK ~~SC STR~~
01 43E	+6 14	2"-3"	5.7	B8III	15-15-15	Bright B Bin	200/100		SC. STR
02 00E	+27° 29′		6.3	B5 III	15-15-15	"	200/100		SC. STR
						D-76	/15 m @ 68°F		
02 23E	+10° 37′	2"	4.15	K3II	22-22	Std Vel	40/31		FINE
0235E	+62° 13′	3"-4"	5.6	B9V	15-15-15	Bright B Bin	200/100		SC. STR
012 E	+26 15	"	4.9	B8	22-15	B std vel	40/20		SC. STR
0003E	+6 14	2"-3"	5.7	B8III	15-15-15	Bright B Bin	200/100		SC. STR
0015E	+27 28	"	6.3	B5III	15-15-15	"	200/100		SC. STR
0220E	−5° 39′	3"	3.73	G0Ib	22 22	std vel	40/27		V. SC. STR
0048E	+62° 12′	3"-4"	5.6	B9V	15-15	Bright B Bin	200/100		SC. STR
" " out out					6/6	no filter			GOOD

137

* baked May 24
** baked May 25

Date 1972 MAY 25/26 Thur-Fri Observer Bln-Tu-Hb Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36089	Supernova in NGC 5253	13 38.3 72	−31° 31′ 72	G-3	IIa-0b*	30/3		20 59	22:23	A	
36089 T1	Col step wedge for 36089				"						
36090	HD 141458	15 44.1	+13 01	G12	IIa0b**	13/5	63°	22 34	23:48	B	01 22E
36090 T1	Col step wedge for 36090-36099				IIa0b**						
36091	HD 170200	18 23.1	+6° 8′	G12	IIa0b**	13/5		23 53	00 29	C	02 5E
36092	HD 180553	19 11.9	+27 17	"	"	"		00 36	01 18	A	02 00E
36093	HD 193964	20 18.0	+61 56	"	"	"		01 22	01 40	B	02 42E
36094	HD 182255	19 18.7	+26 04	"	"	"		01 44	01 52	C	03 3E
36095	HD 186791	19 91.5	+10 22	"	"	"		01 56	02 02	A	01 45E
36096	HD 180553	19 11.9	+27 17	"	"	"		02 05	02 39	B	03 3E
36097	HD 193964	20 18.0	+61 56	"	"	"		02 43	02 59	A	01 22E
36098	HD 206778	21 39.3	+9 25	"	"	"		03 04	03 10	C	03 35E
36099	HD 170200	18 23.1	+6 08	"	"	"		03 13	03 37	A	01 58W
36097 F1	Focus			"	"	13	57			B	

Dome Temp. 57
Focus
Dome Temp. 4

Dome Temp. 56° H=42%

Focus .....

Dome Temp. 48° H=50%

Transparency Conditions Excellent

Ending Time EST	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2 23	A		-31° 27'	3-4	~8(?)	SN	5-5-5	Supernova	900/85	USE MWP-2 MAXIMUM OVERDEVELOPMENT	SC. WK
								MWP-2/15 m	@ 68°F	out of focus	
1 48	A	00 02E	+12 53	4-5'	6.80	AO	15-15-15	spl - Pk	400/200		SC. STR
								MWP-2/9.0 m	@ 68°F		
29	C	02 00E	+6° 14'	3-4	5.7	B8III	15-15-15	Bright B Bin	200/100		SC. STR
1 18	A	0200E	+27 29	"	6.3	B8III	15-15-15	"	200/100		SC. STR
1 00	B	0242E	+62 12	"	5.6	B9V	15-15-15	"	200/100		SC. STR
31 52	C	01 30E	+26° 15'	"	4.9	B8	22-22	B "Std Vel"	40/18		O. SC. STR
1 12	A	0145E	———	"	4.5	K3II	22-22	Std vel	40/30		FINE
29	B	0038E	+27° 29	"	6.3	B5III	15-15-15	Bright B Bin	200/100		SC. STR
29	A	0123E	+62° 12'	4-5	5.6	B9V	15-15-15	"	200/100		SC. STR
1 19	C	0235E	+9 48	3-4'	4.0	K2III	22-22	Std. Vel.	40/30		FINE
1 37	A	0108W	+6°13'	4-5	5.7	B8III	15-15-15	Bright B Bin	200/100		SL. STR
		———	similar				6/6	outlier			GOOD

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* baked May 24
** baked May 26
*** baked May 25

Date 1972 May 26/27 Fri-Sat **Observer** In-Waterloo **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36100	HD 109379	12 29.1	-22 51	G12	IIaO b***	13/15	65°F	20:36	20:40	A	06.09W
36101	NGC 5253	13 38.3 ±2	-31 31 ±2	G43	IIaO b*	20/3		21:05	22:21	B	
~~36101 T1~~	~~Cal step wedge for 36101~~	~~180 sec~~			"			9m @ 68°F			
36102	HD 126128	14 18.5	+8 54	G12	IIaO b***	13/15		22 35	23 43	C	01.25W
36103	HD 126129	"	"	"	"	"		23 44	23 56	B	01.36W
36104	α Lyr	18 36.0 ±2	+38 45	G43	IIaO b**	20/3		00 10	—	A	
36105	MHα 328-116	19 55.0	+39 41	"	"	"		00 22	03:22	C	03.37E
36106	α Lyr	18 36.0 ±2	+38 45 ±2	"	"	"		03 28	—	A	
36106 T1	Cal step wedge for 36104-36107				"						
36106 T2	Cal step wedge for 36100, 36102, 36103				IIaO b***						
36107	HD 203504	21 17.5	+19 23	G12	IIaO b**	13/15	59°	03 42	03 46		01.10E

Dome Temp. 58° F H=44%

Focus

Dome Temp. 50 52%

Transparency Conditions Excellent

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
10:40	A	00 09W		3-4	3.55	G5 III	45	std vel	40/28	(15m @ 68°F) Overdeveloped Haze	FINE
9:21	E		-31° 27	2-3	78	SN	5-5-5		800/60	Full Moon but SN very good	WEAK
6:1°E				— DEVELOPED AND 3RD PLATES — SCRIPT WASN'T IN ORDER							—
9:41	C	01 25W	+8 38	2-3	6.86	A9 V	15-12-18	Close Vis Bin	400/200	(av. 15m @ 68°F)	FINE
9:56	B	01 36W	"	"	5.15	A0 V	15-15-15	"	200/100		FINE
—	A		+38 47	"	mag: 0.1	A0	12	std for Em	40/5		STRONG
3:22	C	00 37E	+39 47	1-2	<10	Em	5-5-5	Em Obj	800/120	Looks much brighter	FINE
—	A				mags 0.1	A0	14	std for Em obj	40/6		STRONG
											—
											—
3:46		01 10E		2"	4.51	B1 IV	24-20	Wide Vis Bin	40/22		STRONG

141

+ baked May 25

Date May 27/28 Sat Sun **Observer** B/G-Im **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36108	HD 152614	16 49·3	+10 20	612	IIaO+6	13/1.5		22:51	22:53	A	01 54E
36109	HDE 226868	19 54.6	+34 56	"	"	13/1.5		23:02	03:36	B	00 15E
36109T1	Cal step wedge for 180sec				"	for plates 36108-					
36110	B Oph	17 38·5	+4 37	612	"	13/1.5		03 40	03 44	C	02 08W
36111	HD 164353	17 55·6	+2 56	"	"	"	62°	03 47	03 49	A	01 56W

Dome Temp.
Focus
Dome Temp.

Dome Temp. 58°F 38?

Focus .....

Dome Temp. 52 41?o

Transparency Conditions ..... Excellent equin

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
?:53	A	01 54E	+10 18	1-½"	4.30	B8V	14-30	sp Bi.-Hlm	40/19		FINE
?:36		00 15E	+35 10	1+3	9.74	130 Ib	15-15+5	"	800/370		SC. WK
?:46	C	02 08W		1+2	3.93	K2III	22-22	std vel	40/24		FINE
?:49	A	01 56W	+3 00	"	4.0	B5	22-22	"	40/17		SC. STR

143

*baked May 26

Date 1972 MAY 28/29 SUN/MON **Observer** Bla-Tu **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36112	HD 145001	16 03.6	+17° 19	6-43	IIa-0b*	13/.3		20:39	20:43	A	03 15E
36113	HD 153807	16 56.5	+34 29	"	"	"		20:49	21:13	B	03 35E
36114	+34° 2880	16 56.4	+34 31	"	"	"		21:14	22 13	C	03 37E
36115	+35 2913	17 01.2	+35 08	"	"	"		22:16	03·00	A	02 08W
36115 T1	Cal step	wedge			"	for plates		36112—116			
36116	HD 154274	16 59.4	+34 40	"	"	"	62°	03:03	03;35	C	02 43W
36116 F1	Focus			"	"	13	"			B	

Dome Temp. 6
Focus
Dome Temp. 5

Dome Temp. 64° H=30%

Focus

Dome Temp. 52 H=45%

Transparency Conditions Good - Some Cirrus
Scattered cloud (thin) all night

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
43	A	03 15 E	+17 11	1"-2"	6.1	G4	5-5-5	Std. Vel.	200/34	(WEAK COMP.)	FINE
13	B	03 38 E	+34 26	2	7.83	G5	5-5-5	Her X	800/130	(17) (COMP WK)	FINE
13	C	02 37 E	+34 28	1-2"	V= 8.5	F	5-5-5	"	800/120	(18) "	FINE
10	A	02 06 W	+35 02	1-3"	(9.5)		5-5-5	"	800/105	seeing got bad "	FINE
3135	C	02 43 W	+34 37	2	7.95	F0	5-5-5	"	800/120		FINE
	B		mi in fortnight				B/B	filtering		- EXTREMELY WK	GOOD
		-									

* baked May 26

Date 1972 May 29/30 Mon-Tues **Observer** MCU-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36117	pleo	10 31.3 1972	+9 27.1 1972	G-12	IIaO6*	9/0.7	68°F	20 47	21:57	A
	~~HD130101~~	~~14 41.2~~	~~+2 19~~	"	"	13/0.5		~~22 03~~		B
36117 FL	Focus Test			"	"	13				B
36117 T1	Col step	wedge	180sec		"	for plates		36117-	20	
36118	HD120109	14 41.2	+02 19	G12	IIIaO6*	13/0.5		22 20	22 38	C
36119	HD141513	15 44.4	−03 07	"	"	"	66°F	22 45	23 17	A
36120	HD148857	16 29.4	+2 12	"	"	"		23:23	23 43	B
36121	HDIR.553	19 11.9	+27 17	"	"	"		23 46	01 —	C

Dome Temp. 6
Focus
Dome Temp.

Hour Angle End

Dome Temp. 67° H=43%

Transparency Conditions (Cloud I don't believe it)

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3 39W	+9 32	~10"	3.8	BOp	15-15-15	M-UBComp	200/145		SL·STR
			~~3.74~~	~~AOI~~		~~Blue Spectrum~~		c/s-1	
	In-in/out-out				6/6	no filter			GOOD
						PLACED IN SPOTTING BOX · EMULSION C.F.			
00 07W	+2 04	9"-7"	3.74	AOI	15-15-15	Sp Bin-B/a	200/98	cloud	FINE
00 18E	-03 17	3"-4"	3.50	AOI	15-15-15	"	200/95	" byline persistent/vanity	FINE
0034E	+02 06	"	3.86	AIV	15-15-15	"	200/95		FINE
0200E	+2729	"	6.3	BSIII	15-15-15	[illegible] Bin	200/95	[illegible] overdevel	VERY WEAK
								↳ 15 m @ 68°F	
	36117 - 20 : 9.0 m @ 68°F in Dew P. 2								

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" Behind May 24
" " " 25

Date Fri Sat June 2-3 1972 **Observer** R. Waterhouse **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36122	HD 126129	14 18.5	+08 54	G-12	IIaO	13/.5	63°F	20:41	20:54	A
36123	HD126128	"	"	"	"	"		20:56	22:16	B
36123T1	calibration	steps wedge for plate			36122 -	36128		180 sec.		
36124	HD 137391	15 20.7	+37 41	"	IIIaO B+W	13/.5		22:25	22:35	C
36125	HD146362	16 10.9	+3407	"	"	"		22:40	23:32	A
36126	HD 146361	"	"	"	"	"		23:34	00:03	B
36127	α Lyrae	18 33 6	+38° 41	"	"	13/.3		00:10	00:11	C
36128	M 2 305-116	19 55.0	+39° 41	"	"	"		00:20	02:15	A

Dome Temp. 54°F 75%

Focus .....

Dome Temp. .....

Transparency Conditions scattered cirrus clouds
good after 21.00

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Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2 54	H	01h00 E	+08 38'	2	5.15	A0 I	15-15-15	2 min B min	400/2000		FINE
3		00h23W	"	2	6.86	A9 II	15-15-15	"	400/2000		(GUIDING) SL. WK
55	G	00h20 E	+37° 32'	2	4.65	F2 II	15-15-15	"	200/130		FINE
32	J	00h13E	+33° 59	2	7.31	G1 II	15-15-15	"	400/260		U. SL. WK
03	B	00h18W	"	2	6.20	F8 II	15-15-15	"	400/260		(GUIDING) FINE
	C	01h55E	+38° 48'				23-23	STD Em	20/4		(GUIDING) FINE
	H	01h15E	+39° 49'		~10	Em	15-15-15	Em * F	800/23	clouds broken two pieces	* WK
										* WEAK COMPARISON	

1 of 9

*baked May 25

Date Sat-Sun June 3-4, '72 **Observer** B/n - R/ **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
36129	HD141458	15 44.1	+13 01	G-12	IIa-O*	13/.5	68°F	22:51	00:16	A
	~~HD170073~~	~~18 22.5~~	~~+59 4~~	"	"	"				B

Dome Temp. T°
Focus
Dome Temp. T°

How Angle End	D
31	

Dome Temp. 58° H=83%

Focus .....

Dome Temp. 56° H=86%

Transparency Conditions Fair-Poor

150

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9 0 16	0100N	+12° 50'	4-5	6.80	A0	15-15-15	Sp Bin-Blu	400/282	Clouds	FINE
				4.93	A1		"	200/	- 1/2" FOGGED (BLUE END)	

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* B May 25

Date Sun-Mon JUNE 4/5 '72 **Observer** McK-Ri **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36130	p Leo	1031.3 1972	+09 27.1 1972	G-12	IIa-O*	9/0.7	67°F	20 37	20:44	A
36131	HD104451	11 56.6	+30 06	"	"	25/0.3	62°F	20 49	23 49	B
36132	HD176668	18 56.3	+62 16	"	"	13/0.5	59°F	23 57	02 08	C
36133	HD201433	21 04.4	+29°48'	"	"	9/0.9		02. 14	03 41	A
36134	HD206778	21 39.3	+09 25			13/0.5		03:45	03:50	B
36134F1	focus test on 21/w in					13	58°F			B
36130T1	Calibration Step Wedge	130 sec			for plate 36130 - 36134					

Dome Temp. 5[illegible]
Focus
Dome Temp. [illegible]

Hour Angle End

Dome Temp. 54°F, H=59%

Transparency Conditions cirrus from SW ~ 2300

Focus .....

Dome Temp. 50°F H 63%

1J2

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02h50W	+09 30	5-6"	3.8	B0p	23-23	B0 comp.	40/19	* WEAK comp	FINE
04h26W	+29 46	"	8.7	g F3	15-15-15	Sp Bin-B In	800/295		sc. wk
00 11E	+62° 24'	"	7.44	G8III	15-15-15	Hi Vic. Bin.	400/225	thin cirrus	sc. wk FINE
00 49E	+30° 07	"	5.6-5.79	A0	15-15-15	Mell *	200/200	*	FINE
01h15E	+09° 49	"	3.98	K2III	23-23	B and Vel	40/30	Bdwin 2 pieces	v. sc. wk
					6-6	no filter			v. sc. CENTRE TO RED
	EMULSION	CP	IN	SPOTTING	BOX				

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B May 26

Date June 5-6 Ma-Tues 1972 **Observer** McU-Ri **Julian Day**

Plate No.	Object	R.A. 1900 1972	Declination 1900 1972	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36135	P Leo	10 31.3	+09 27.1	G-12	IIaOB	9/0.9		20 39	20:54	A
36136	HD 110411	12 36.8	+10° 47	G-12	IIaOB	13/1.5	65°F	21:05	21:16	B
36137	HD 120109	14 41.2	+02° 19	"	IIaO	"		21:20	21 25	C
36138	HD 192182	20 08.5	+38 09	"	IIaO	"		21:39	22:15	A
36138T1	calibration	step wedge for	plates		36135-36136					
36138T2	"	"	"	"		36137-36138				

Dome Temp. 54°F 57%

Transparency Conditions scattered clouds - poor

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03h03m W	+09° 30'	4	3.8	BOp	23-23	BO comp.	40/26	Broke spun	* SL. STR
01h15m W	+10°28	3	4.97	AII	23-23	Spect Bi-Bi	200/100		FINE
00h39m E	+22° 04'		3.74	AoII	23-23	"	40/20		FINE
05h16m E	+38° 25		7.99	KoIII	15-30	Hd Vi. Bi.	800/58	clouded over	VERY WEAK
								NO. 38	
								NO. 38T2	
								* F2 PARTIALLY	
								CUTOFF - TOO LONG SLIT	

{ 2 @ PF2/9.0 min @ 68°F

* Baked June 5-6

Date 6/7 JUNE '72 TUES/WED **Observer** B.M.-R. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36139	α Boo HD 124897	14 11.2	+19° 42	G-12	IIaOB*	13/.5		20:39	20:40	A
36140	HD 104451	11 56.6	+30 06	G-12	IIaOB*	25/.3		20:51	22:28	B
36141	HD 167771	18 11.6	−18 30	"	"	13/.3		22:33	23:47	C
36142	HDE 226868	19 54.6	+34 56	"	"	20/.4	58°F	23:54	03:41	A
3614271	calibration	step wedge	for plates	36139-	36143					
36143	HD 170073	18 22.5	+58 45	"	"	13/.5		03:45	03:53	B

Dome Temp. 51°
Focus
Dome Temp. 7[illegible]

Hour Angle End

Dome Temp. 53°F H=66%

Focus .....

Dome Temp. 49°F H-68%

Transparency Conditions Excellent! (but a few scattered thin clouds)

We saw Venus set!

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:40	1	00h50E	+19° 24'	6-10	1.30	K2III	25-25	SP Bw. Bl~	40/25		FINE
2:35	3	03h12W	+29° 45	5	8.7	gF3	17-15-17	"	800/300		FINE
1:47	1	01h45E	-18° 25	6-8	6.64	O4If	17-17-17	"	400/120		FINE
3:01	1	00h30W	+35° 10'	3-5	9.74	B0Ib	17-17-17	"	800/300	Broken 2 pieces	FINE
			NGP-2 / 7.0 m in @ 68°F								—
3:53	2	02h15W	+58° 50	5-6	4.93	A1V	25-25	"	40/19		FINE

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* baked

Date 7/8 June 72 wed/Thurs Observer Sy - Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36144	4 Her	15 52.1	+42 51	G12	IIaO6*	13.5	67°	20 48	21:36	A	01.30E
36145	"	"	"	"	"	"		22:40	23:04	C	00.02E
36146	"	"	"	"	"	"	"	23:06	23:38	A	00.28W
36147	"	"	"	"	"	"	65°±	23:40	00:08	B	01.28W
36147 T1	Cal step	wedge	180 sec		"	for	plates 36144 -		58		
36148	4 Her	15 52.1	+42 51	G12	"	13.5	65°	00 17	00:33	C	01.22W
36149	"	"	"	"	"	"	"	00 41	01:03	A	01.47W
36150	"	"	"	"	"	"		01 06	01:22	B	02.16W
36151	B Lyr	18 49.0 72	+33 20 77	"	"	9.5		01 29	01:33	C	00.28E
36152	"	"	"	"	"	"		01 35	01 37	B	00.23E
36153	"	"	"	"	"	"		01 38	01 42	A	
36154	"	"	"	"	"	"		01 43	01 47	B	
36155	"	"	"	"	"	"		01 48	01 50	C	
36156	"	"	"	"	"	"		01 53	01 57	A	
36157	"	"	"	"	"	"		02:00	0206	B	00.46W
36158	"	"	"	"	"	"		02:13	02 17	C	

Dome Temp. 6
Focus
Dome Temp.

Dome Temp. 63° H=40% Transparency Conditions Scat Cloud

Focus .....

Dome Temp. .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:36	A	0130E	+42 42	1"6"	5·5	B	15-15-15	Be prog	200/80	cloud (broken 2 yes)	U.SL.STR
1:04	C	0002E	"	2"-3"	"	"	15-15-15	"	200/80		STRONG
0:33	A	0026W	"	"	"	"	15-15-15	"	200/80		SL.STR
0:01	B	0104W	"	"	"	"	15-15-15	"	200/80	cloud	SL.STR
23:13	C	0128W	42 43	2·3	5·5	B	15-15-15	Be prog	200/80		(GUIDING) SL.STR
23:03	A	0157W	"	"	"	"	15-15-15	"	200/80		SL.STR
22:22	B	0216W	"	"	"	"	15-15-15	"	200/80		SL.STR
22:33	C	0028E	33 22	"	3·33	Bpe	23-23	"	40/21		SL.STR
22:37	B	0023E	"	"	"	"	23-23	"	40/18		SL.STR
22:42	A		"	"	"	"	23-23	"	40/20		SL.STR
22:47	B		"	"	"	"	23-23	"	40/20		SL.STR
22:50	C		"	"	"	"	23-23	"	40/20		(GUIDING) SL.STR
22:53	A		"	"	"	"	23-23	"	40/18		(GUIDING) SL.STR
22:56	B	0006W	"	"	"	"	23-23	"	40/16		SL.STR
22:17	C		"	"	"	"	23-23	"	40/16	coat #2	SL.STR

1.5.9 (5)

Date ..... **Observer** ..... **Julian Day** .....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36159	B Lyr			G12	IIaO	91.5		02 21	02 25	A	10:25W
36160								02 27	02 32	B	
36161								02 34	02 37	C	
36162								02 38	02 42	A	
36163								02 46	02 50	B	
36164								02 51	02 54	C	
36165								02 55	03 01	A	11 WW
~~36166~~	~~31 Peg~~	~~22 166~~	~~+11 42~~			~~13.5~~		03 10		B	
36165T1	cal step wedge				IIaO	for plates 36159-65					

Dome Temp.
Focus .....
Dome Temp.

Dome Temp. ..... Transparency Conditions .....

Focus .....

Dome Temp. .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2 25	A	00 25W	33 22	2"	3.33	Bpe	23-23	Be prog	40/20		Sc. STR
32 32	E						23-23	"	40/20		Sc. STR
32 37	C						23-23	"	40/16		Sc. STR
32 42	A						23-23	"	40/18		Sc. STR
32 50	E						23-23	"	40/20		Sc. STR
33 4	C						23-23	"	40/19		Sc. STR
33 01	A	01 00W					23-23	"	40/19		Sc. STR
	E		+12 08	2½'	4.8	B'	K	"	200/	Cloud	
					9.0 m @ 68°F in				MWP-2 / 5 June 1972		

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* baked June 7/8

Date 9/10 June 72 Fri - Sat Observer Wat - Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36166	HD 135722	15 11.5	+33 41	G12	D.06*	131.5	62°	20:46	20:58	A	+1.26
~~36167~~	~~HD139145~~	~~15 31.7~~	~~+16 21~~	"	"	"		21:03		B	

Dome Temp. 45
Focus
Dome Temp.

Dome Temp. 45° H=67%

Transparency Conditions Good - some cloud

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 20 6	+33 27	8" bad	9.42	G8 III	23-23	Wide Vis Bin	40/28		FINE
~~—~~	~~+10 11~~	~~5"?~~	~~5.4~~	~~K1 p~~	~~15~~	~~Lick Type~~	~~300~~/	Cloud	

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{65,7 * contrasted 7 Jun
{80

Clouds

Date Jun 10/11 '73 **Observer** Cu-Ju **Julian Day**

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36167	HR 5681	15 11.4	+33 01	G-24	I-N	0.5	45°F	23 15	23 43	A	
36168	HR 5681	15 11.4	+33 01	"	"	"	"	23 45	00 14	B	
36169	HR 5954	15 39.3	+06 45	"	"	"		00 16	00 32	C	
36170	HR 5954	15 39.3	+06 45	"	"	"		00 33	00 47	A	
36171	HR 6556	17 30.3	+12 37.6					00 50	01 14	C	
36172	HR 6556	17 30.3	+12 37.6	"	"	"		01 17	01 41	B	
36173	Jupiter	18 22.5	-23 07	"	"	"		01 55	01 58	C	
36174	HR 7716	20 16.4	+39 57.6	"	"	"		02 16	02 26	A	
36175	HR 7716	20 16.4	+39 57.6	"	"	"		02 30	02 38	B	
	HR 8308	21 54	+01 17	"	"	"		02 43		C	
	HR 8308	21 54	+01 17			"					
36175T1*	Cal step wedge	180 sec			"	"	for plates	36167-175			

Dome Temp. 38°F H=63% Transparency Conditions Photometric

Focus .....

Dome Temp. 34°F H=60%

Ending Time E.S.T. P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	0130W	+33 27	2.5"	V-I 1.24	G5III	90-90-90	IR-1 sec	40/100	of fig 1.	
	0157W	"	"	V-I 1.24	G5III	90-90-90	"	40/100	of fig 2	
	0150W	+6 33	"	V-I 1.24	K2.5III	90-90-90	"	40/180	of fig 1	
	0205W	"	"	V-I 1.24	K2.5III	90-90-90	"	40/175	of fig 2	
	0041W	+12 38	"	V-I 1.24	M5E	90-90-90	"	40/375	fig 1 + halo	
	0109W	"	"	V-I 1.24	M5E	90-90-90	"	40/410	fig 2	
	0037W		"		G0V	90-180	"	40/140	N140. (red spot)	
	0055E	+40 12	2.3"	V-I 1.24	G5III	90-90-90	"	40/175	fig 1	
	0042E	"	"	V-I 1.24	G5III	90-90-90	"	40/160	fig 2 (light cloud)	
				V-I 1.24				40/	fig 1 (FOG)	
				V-I 1.24				40/	fig 2	

* THIS IS EXPOSED TO BLUE LIGHT, SO PROBABLY IS OF LIMITED VALUE IN THE INFRARED

— 5m @ 68°C in D-19 / 12 June / 72

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*baked June 7/8

Date 16/17 June '72 Fri/Sat **Observer** Blm-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36176	HD 152614	$16^h\ 49^m.3$	$+10°\ 13'$	G-12	IIa-0*	13/1.5		20:51	21:03	C
36177	BD +35°2798	16 57.0	+35 19	G43	"	13/1.3	54°	21:15	02:43	A
36177T1	Col step wedge		180 sec		"	for plate 36176-				
36178	HD 152614	16 49.3	+10 13	G12	"	13/1.5		02:53	03:05	B
36179	HD 201433	21 04.4	+29 49	"	"	9/1.5		03:08	03:40	C

Dome Temp. 51° H=62%

Focus .....

Dome Temp. 43° H=73%

Transparency Conditions ...very good.....
some cloud - lots of cloud

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
:13	C	02 25E	+10° 13'	4-8	4.30	13 EV	15-15-18	Sp Bin-Blu	200/100		
:03	A		+35° 14'	3-6"	~10	?	5-5-5	Her X-L	800/72	Star #51 OVERDEVELOP (1.5 hr)	
.05	P	03 36W	+10° 15'	5"	4.30	18 EV	17-17-17	Sp Bin-Blu	200/100		
1.00	C	00 02E	+30 08	"	5.6	A0	17-17-17	"	400/104	Overdeveloped Cloud + Dawn	

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* sensitized 16 June

Date 17/18 Jun Sat/Sun **Observer** Ch Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36180.	HR 5681	15 11.4	33 41	G24	I-N*	13/.5		23 22	23 42	A
36181	HR 5616	15 00.2	27 20	〃	〃	〃	60F	23 50	00 20	B
36182	HR 5616	15 00.2	27 20	〃	〃	〃		00:24	00 51	C
36183.	HR 6556	17 30.3	12 37.6	〃	〃	〃		01 00	01 18	A
36184	Jupiter	18 19 20	-23 09.6	〃	〃	〃		01 30	01 37	B
36185	HR 6588	17 36.6	46 05	〃	〃	〃		01 48	02 42	A
36186	HR 8316	21 40.7	58 22	〃	〃	〃		02 51	03 05	C
36187	〃	〃	〃	〃	〃	〃		03 10	03 20	B
36187T	Comp Spectrum			〃	〃					C

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 50° H=58%

Transparency Conditions Excellent

Focus

Dome Temp. 50° H=57%

Fantastic Aurora (red, purple, green) above (all night)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
~~02 07W~~ 01 53W	33° 27′	2″	(V-I) 1.24	G8 III	90-90-90	R Spec	40/125		F.c *
02 45W	27 07	"	1.58	K2 III	90-90-90	"	40/75	fig 2	F.c *
03 15W	"	"	1.58	K2 III	90-90-90	"	40/65	fig 1	S/wk
01 12W	12 36	"	0.22	A5 III	90-90-90	"	40/400	fig 1	F.p *
00 45W		"		G0	90-90-90	"	40/160	G0 North polar area	F.c
02 31W	46 06	"	-0.27	B3 V	90-90-90	"	40/700	fig 1, 2	S/w.i
01 10E	58 38	"	3.81	M2 Ia	90-90-90	"	40/40	fig 1	F.c
00 55E	"	"	"	"	90-180	"	40/30	"	F.p
					10 min				
								* Fogged	
								.237	

* Baked June 7/8
** Baked June 17/18

Date 18/19 June Sun/Mon **Observer** McG-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36188	HD148857	16 25.9	+02 12	G-12	IIaO6*	13/0.5	66°F	22 26	22 38	A
36189	HD176665	18 58.3	+62 16	"	"	12/0.3	64°F	22 50	01 18	B
36190	HD201433E	21 04.4	+29 48	"	IIaO6**	9/0.3		01 40	03 40	C
36190T1	Col edge	wedge	18 sec		"	for plate 36190				

June 20/72 { plates 36176, 178, 36188–36190T1
{ plates 36177, 77T1 & 36179

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 52°F H=65%

Focus .....

Dome Temp. 53° H=83%

Transparency Conditions Very hazy, some cloud.....
Heavy cloud ~2315

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 20E	+02 05	3/4"	3.86	AIV	17-17-17	Bln Spec Bin	200/95		
0007E	+62 21	2"	7.44	68 III	17-17-17	Hd Vis. Bin	300/350	looked at Waterloo Em. Obj.	
0005W	+30 07	"	~7.5	A0	17-17-17	Mell *	800/185	(overexposed) Secondary of Vis. Bin.	
	MWP-2 /	≈ 10 min ? ? (clock not operating)					@ 68°F		
	MWP-2 /	15 min @ 68°F							

† dated June 7/8

Date 19/20 JUNE MON/TUES Observer McL-Th Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36191	HD152614	16 49.3	+10 20	G12	IIaO-D	13/5	70°	21 03	21:23	A
36192	HD 148857	16 25.9	+02 12	"	"	"		21 28	21 46	B

Dome Temp. 6
Focus
Dome Temp.

Hour Angle End

Dome Temp. 60° H: 82%

Transparency Conditions Hazy ... Sky

Focus

Dome Temp. 60° 92%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 54 E	+10 16	3.5"	4.30	BXI	17-12-17	Sp Rm - Ex	240/95		
01 05E	+2 09	"	3.86	AII	17-7-17	"	200/100	Thermo tube & structure from SE	
								Closed - Too humid	
								Foggy	

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* baked June 16/17
** baked June 7/8

Date 26-27 June Mon-Tues **Observer** MCH-RI **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36193	HD110411	12 36.8	+10 47	G-12	IIaO6*	13/0.5	65°F	21 03	21:23	A
36194	HD130109	14 41.2	+02 19	"	"	"		21 26	21:34	B
36195	HD141453	15 44.1	+13 01	"	"	"	64°F	21 38	22:34	C
36195 T1	calibration	step wedge for plate			36193	– 36	199	June 28 1972		
36196	HD192182	20 08.5	+38 09	G-12	IIaO3*	13/1.3		22:40	00 21	A
36197	HD196929	20 35.3	+03 05	"	"	"		00 26	02.16	B
36198	HD201142	21 04.4	+29 48	"	"	9/0.9		02:21	03 23	A
36199	HD201778	21 29.3	+09 25	"	IIaO6**	9/0.5		03:28	03:34	C
36199F1	focus test	21 29/+09		G-12	IIaO6**	9	61°F			B

Done Temp.
Focus
Done Temp.
Hour Angle End

Dome Temp. 56°F, H=90%

Focus .....

Dome Temp. 52° F H 83%

Transparency Conditions Very hazy... some thin cloud.....
Some haze but no cloud after 22:00
Full moon, very bright sky

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02"45W	+10 28	4"-5"	4.97	A2V	17-17-17	Blu Spec Bin	400/200		O.S. cirr
00"52W	+02 04	"	3.74	A0I	17-17-17	"	200/100		FINE
00"50W	+12°53'	~4"	6.8=	A0	17-17-17	"	400/200		FINE
MWP2 for 9 min @ 68°F									
01 47E	+38°25'	"	7.97	K0III	17-17-17	Hd Vis Bin	800/350		SC. cirr
00 19E	+03 24	4"-5"	7.94	K2III	17-17-17	"	500/250		SC. cirr
00 25W	+30°09'	3-5"	5.6-5.79	B8	17-17-17	mon *	200/220		FINE
00"05E	+21 41		3.98	K2Ib	26-26	STD VEL	90/30		SC. WK
					7-7	~ filter			

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* Baked June 16-17
** Baked June 7/8

Date 27-28 June Tues Wed 1972 **Observer** Sy - Pi **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36200	48 Lib HD 142983	15 52.5	-13 59°	G-12	IIaOB*	13/.3	68°F	20:55	21.05	A	
36201	"	"	"	"	"	"		21:08	21:19	B	
36202	"	"	"	"	"	"		21:21	21:31	C	
36203	"	"	"	"	"	"		21:32	21:41	A	
36204	"	"	"	"	"	"		21:43	21:53	B	
36205	"	"	"	"	"	"		21:57	22.15	C	
36206	"	"	"	"	"	"		22:16	22:35	A	
36207	"	"	"	"	"	"		22.37	22:52	B	
36208	"	"	"	"	"	"		22.54	23:06	C	
36209	"	"	"	"	"	"		23:08	23:28	A	
36210	"	"	"	"	"	"		23:29	23:40	B	
36210 T1	calibration step wedge				IIaOB*		for plates 36200 - 36210				
36211	4 HER HD 142926	15 52.1	+42 51	G-12	IIaOB**	13/.5		23:49	00:01	C	
36212	"	"	"	"	"	"		00:03	00:15	A	
36213	"	"	"	"	"	"		00:19	00:37	B	
36214	"	"	"	"	"	"		00:40	00:58	C	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 60°F 85%

Transparency Conditions .....

Focus .....

Dome Temp. .....

Reading Time E.S.T	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A	00445E	-14° 07'		4.8	Be	15-15-15	Be Prog	2m/54		Fine
	B	00430E	"		"	"	17-17-17	"	2m/53		Fine
	C	00409E	"		"	"	17-17-17	"	2m/53		Fine
	A	00409E	"		"	"	17-17-17	"	2m/53		Fine
	B	00°04W	"		"	"	17-17-17	"	2m/53		Fine
	C	00425W	"	2-3	"	"	17-17-17	"	2m/54	clouds fm SW	"
	A	00446W	"	2-3	"	"	17-17-17	"	2m/52		"
	B	01°04W	"		"	"	17-17-17	"	2m/53	clear up	"
	C	01°17W			"	"	17-17-17	"	2m/52		"
	A	01°39W	"	3-4	"	"	17-17-17	"	2m/53		"
	B	01°50W	"		"	"	17-17-17	"	2m/52	broken ½" discarded not discarded	"
	C	02415W	+40°42'	2-3	5.5	B	17-17-17	"	2m/54		"
	F		"		"	"	17-25	"	2m/67	broken, both pieces There but the ng may have been written on wrong side!	"
							17-17-17	"	200/64		"
	C						17-17-17	"	200/65		"

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**Baked on June 7/8

Date June 27/28 Tues-wed **Observer** Sy-Ri **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36215	4 Her HD 142926	$15^h\ 53.82$	$+42^\circ\ 42'6$	G-12	IIaO b^{1**}	13/.5		01:00	01:11	A	
36216	"	"	"	"	"	"		01:14	01:27	B	
36217	"	"	"	"	"	"		01:29	01:44	C	
36218	"	"	"	"	"	"		01:45	01:59	A	
36219	MWC 347 HD 195592	20 27.1	$+43^\circ\ 5'8$	G-12	IIaO b^{1**}	13/.3		02:16	03:37	B	
36219T1	calibration strip wedge				IIaO b^{1**}	for	plates	36211 – 36219			
			June 30/72		plates 36200 – ~~36210~~ 36211						
					plates 36212 – 36219T1						

Dome Temp.
Focus
Dome Temp.

Dome Temp. ..... Transparency Conditions .....

Focus .....

Dome Temp. 55°F 89%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03H25W	+42°42'	3-4	5.5	B	17-17-17	Be Prog.	200/68		5.0
03H40W	"		"	"	17-17-17	"	200/66		"
03H57W	"		"	"	17-17-17	"	200/69		"
04H12W	"		"	"	17 17 17	"	200/69		"
01H15W	+44° 15'		8.0	CO	17-17-17	"	400/200		"
mwp-2	9 min @		67°F						
mwp-2	9 min @		68°F						

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+baked June 28

Date June 28/29/72 Wed-Thurs **Observer** Sy-Tu **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36220	48 Lib	15 52.5	-13 59	G12	IIaO-hyp	13/.5	72°F	20 51	21:15	A
36221	"	"	"	"	"	13/.3	"	21 18	21:42	B
36222	"	"	"	"	"	"		21 49	22:11	C
36222 T1	Calstep wedge		180sec		"	for plates 36220-26				
36223	48 Lib	15 52.5	-13 59	G12	"	13/.3		22'14	22:32	A
36224	"	"	"	"	"	"		22:33	22:51	B
36225	"	"	"	"	"	"	69°F	22:53	23:20	C
36226	4 Hour	15h 52m.14	+42°51'.4	"	"	"	"	23:28	23:54	A

Dome Temp. 65
Focus
Dome Temp.

Hour Angle End	D
10 3/4	-1
10 3/4	
10 3/4	
10 3/4	
10 3/4	
10 3/4	
10 3/4	+4

Dome Temp. 66°F M:64

Focus .....

Dome Temp. 60° 81%

Transparency Conditions some cirrus but good then bad by 22h

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21:15	A	00 30E	-14 08	2'-3"	4·8	Be	15-17-17	Be prog	200/70		
21:42	B	00 03E	〃	3	〃	〃	17-17-17	〃	200/55		
22:11	C	0026W	〃	3'-4"	〃	〃	17-17-17	〃	200/55		
											bad
22:32	A	0046W	-14 08	3'-4'	4·8	Be	17-17-17	Be prog	200/55		
22:57	B	0106W	〃	〃	〃	〃	17-17-17	〃	200/55		
23:30	C	0136W	〃	〃	〃	〃	17-17-17	〃	200/33	clouds, exposure terminated overdevelop	
1:54	A	0210W	+42 42	2'-3"	5·5	B	17-17-17	〃	200/50	cloud	

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+ baked June 28

Dome Temp. 6

Focus

Dome Temp. 5

Date June 30/July 1 Fri-Sat **Observer** Way - Jr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36227	MH2 328-116	19 55.0	+39 41	G12	IIaO-$\frac{T}{b}$	20.4		00 20	02 10	A	
36228	" Cyg	18 33.6	38 41	"	"	"	66°	0217		B	

Dome Temp. 60° H 88%

Focus

Dome Temp. 58 H-92%

Transparency Conditions Hazy

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
10		3C 345	39° 46'	2-3"	10	Em	17-1747	Em objed	900/450	Haze Too Humid. over develop	
							23-23	Sky	90/15		

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+ baked June 28
+ received 23 June

Date July 1/2 Sat Sun **Observer** Tn Cu **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
36229	HD 124897	14 11.2	+19 42	G12	IIaO6	13/.5	73°F	20 51	——	A
36230	HD 132614	16 49.3	+10 20	"	"	"	"	21 01	21 09	B
36231	HD 136729	17 14.2	37 24	"	"	"	"	21 17	21 21	C
36232	HD 141458	15 44.1	+13 01	"	"	"		21 36	22 36	A
36233	Jupiter	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22 02	23 10	C
36234	HR 8316	21 40.7	+58 22	"	"	"	"	23 25	23 51	B
36235	HR 6707	17 54.7	+30 12	"	"	"	"	00 18	01 42	A
36236	HR 8297	21 37.8	+35 03	"	"	"	"	01 56	02 52	C
36236 T1	Calibration wedge		180 sec		IIaO6	for plates		36229 -	32	

July 2/72 {Plates (36220 - 22, 26, 36229 - 32, 36 T1)
(Plates (36225, 27, 28)

plate 33 - 36 in D-19/5'

Dome Temp. 68° H=50%

Focus .....

Dome Temp. 63 H=65%

Transparency Conditions ..... very good ..... cloud ... SW

cloud

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
—	A	01 00W	+19 24	2"		K2IIIp	47"	Std Vel	40/28		
	B	01 21E	+10 16	1-½"	4.30	B8V	17-17-17	Sp Bin-Vis	240/90		
	C	01 32E	+37 22	"	4.79	A2V	17-17-17	"	200/90		
	A	01 11W	+12 52	2"	6.80	A0	17-34	"	400/260		Fine bad guiding
	C	0038E		2"		G0	4½ min	I	[illegible]	[illegible]	Blank
	B	0329E	+58 42	"	V-I = 3.81	M2Ib	90-90-90	"	40/53	" " (+½ [illegible]	Blank
	A	0268N	+30 15	"	0.63	F2II	90-90-90	"	[illegible]/225	[illegible]	Blank
	C	0025E	+35 26	"	3.15 V	C6, [illegible]	[illegible]	—	[illegible]/252	[illegible]	Blank
											bad
		mwp-2	9 min	@	68°F						
		mwp-2	13 min	@	68°F						

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#1

* board July 2

Date July 3/4 Mon-Tues Observer McU-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36236 ~~364~~ ~~365~~	HD161096	17 38.5	+04 37	G-12	IIa 06*	13/0.5		20 49	20 54	A	
36237	HD141458	15 44.1	+13 01	"	"	"		2059	22 41	B	
36237T1	Cal step + edge		185 sec		"	plate of 36236 —					
36238	HD192182	20 08.5	+38 09	G12	"	13/4		22 47	01 31	C	
36239 ~~40~~	Algol	03 01.7	+40 34	"	"	9/7		01 39	01 42	A	
36240	"	"	"	"	"	"		01 51	01 54	B	
36241	"	"	"	"	"	"		01 55	01 59	C	
36242	"	"	"	"	"	"		02 01	02 04	A	
36243	"	"	"	"	"	"		02 09	02 12	B	
36244	"	"	"	"	"	"		02 14	0216	C	
36245	"	"	"	"	"	"		02 19	0221	A	
36246	"	"	"	"	"	"		02 23	02 29	B	
36247	"	"	"	"	"	"		02 30	02 33	C	
36248	"	"	"	"	"	"		02 35	02 39	A	
36249	"	"	"	"	"	"		02 40	02 44	B	
36250 ~~37~~	"	"	"	"	"	"		02 46	02 49	C	

Done Temp.

Focus

Done Temp.

Dome Temp. 50°F H=78%

Transparency Conditions Excellent - haze some cloud

Focus .....

Dome Temp. .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
54	A	02h 17m E	+4 38'	3"-5"	3.93	K2E	50 and	β Spin Stove L	40/25		
22 A	B	01 24 W	+12 54	4"-7"	6.80	A0	17-17-17	Hd Spin Bin	400/260		I=I NE
1	C	00 09E	+38 25	4"-6"	7.97	K0 III	17-17-17	Hd Vis Bin	800/250	please wind/wipe!	
42	A	"	+40 54	4-5	2.6	B8 V	25-25	Sp. Bin	40/20		
1	B		"	"	"	"	25-25	"	40/20		
49	C		"	"	"	"	25-25	"	40/20	marked twice w/pencil	
14	A	06 30E	"	"	"	"	25-25	"	40/20		
2	D		"	"	"	"	25-25	"	40/20		
216	C	06 18E	"	3+5	"	"	25-25	"	40/20		
21	A	06 13E	"	"	"	"	25-25	"	40/20		
34	B	06 05E	"	"	"	"	25-25	"	40/20		
33	C	06 02E	"	"	"	"	25-25	"	40/20		
34	A	05 56E	"	"	"	"	25-25	"	40/21		
44	B	05 51E	"	"	"	"	25-25	"	40/20		
49	C		"	"	"	"	25-25	"	40/20		

1897.2

Date July 4 **Observer** **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36251	Algol	3 01.7	40 34	"	"	9/17		02 50	02 53	A
36252	HD172044	18 32.9	+33 23	6-12	IIaO6*	"	54°F	03 00	03 28	C
36253	HD199629	20 53.5	+40 47	"	"	13/0.5		03 31	03 35	A
36252T1	Cal/Step	wedge	1E1 sec		"					
36252F1	Focus				"	13	54°F			B

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions ..... Excellent .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 53	A	"	"	"	"	"	25-25	"	40/20		
2 59	C	03 24 W	+33 29	3.7"	5.4	B9 II	17-17-17	Bln Algol Comp.	200/130		
3 35	A	01 11 W	+41 07	"	3.96	A0 II	25-25	Bln Spec Bin	40/18		
		"	"				8/8	no filter			BLANK

Date 1972 July 4/5 Tue/Wed **Observer** Bln - Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36253 ~~53A 55~~	HD130841	14 45.4	-15 38	G-12	IIa-O	9/.5	61°F	20:50	21:12	A
36254	Algol	3 01.7	+40 34	"	"	9/.9		00:07	00:25	B
36255	"	"	"	"	"	"		00:31	00:45	C
36256	"	"	"	"	"	"		00:46	00:57	A
36257	"	"	"	"	"	"		01:00	01:12	B
36257T1	Calcite	wedge	180 sq		"					
36258	Algol	3 01.7	40 34	G-12	"	9/.9		01:16	01:24	C
36259	"	"	"	"	"	"		01 26	01:30	A
36260	"	"	"	"	"	"		01 32	01:38	B
36261	"	"	"	"	"	"		01 41	01:45	C
36262	"	"	"	"	"	"		01 51	01:55	A
36263	"	"	"	"	"	"		02 02	0205	B
36264	"	"	"	"	"	"		02 14	0218	C
36265	"	"	"	"	"	"		02 23	02 26	A
36266	"	"	"	"	"	"		02 28	0231	B
36267	"	"	"	"	"	"		02 33	02 37	C

Dome Temp. 53° H=48%

Focus .....

Dome Temp. .....

Transparency Conditions very good ; cloud in South

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
05 59W	+15 51	6"	2.89	A7III	15-15-15	Sp. Blu - Blu	40/18	cloud	
0806E	+40 52	8	2.0 - 3.2	B8II	24-24	"	200/162		
0745E	"	"	"	"	22-22	"	200/161		
0733E	"	"	"	"	22-22	"	40/32		
	"	"	"	"	22-22	"	40/37		
0707E	40 42	6"	"	"	22-22	Sp. - Blu	200/160	(maybe fogged)	
	"	"	"	"	22-22	"	40/33	(dome lights on 1/2 sec)	
	"	"	"	"	22-22	"	40/37		
		4"	"	"	22-22	"	40/34		*
0636E	40 55	"	"	"	22-22	"	40/32		*
0625E	"	"	"	"	25-25	"	40/32		*
0613E	"	"	"	"	25-25	"	40/32		*
0604E	"	"	"	"	25-25	"	40/32		*
0559E	"	"	"	"	25-25	"	40/32		
0554E	"	"	"	"	25-25	"	40/32		

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Date July 5, '72 **Observer** Bln - Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36268 ~~Fog~~	Algol	3 01.7	+40 34	G-12	IIa-O	9/.9		02:40	02:44	A
36269	"	"	"	"	"	"		02:47	02:51	B
36270	"	"	"	"	"	"		02:54	02:57	C
36271	"	"	"	"	"	"		02:59	03:02	A
36272	Moon	1972 01 [illegible].6	1972 +16 05	"	"	"		03:15	03:21	B
36273 ~~Fog~~	HD172044	18 32.9	33 23	"	"	91.5	55°F	03:29	03 52	C
36273T1	Cal step wedge		180 sec		"					

Dome Temp.
Focus 4
Dome Temp. 4

Hour Angle End
E
49E
33E
E
17 4E
33 4W

Dome Temp. .....

Focus 40-IR

Dome Temp. 45° 70%

Transparency Conditions Excellent

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
05 46 E	+40 54	4	2.2-3.47	B8V	25-25	Sp. Bin-Bin	40/32	Fast guided	*
05 40 E	"	"	"	"	25-25	"	40/32	"?	* Guiding
05 33 E	"	"	"	"	25-25	"	40/32		*
05 28 E	"	"	"	"	25-25	"	40/31		
03 47 E					50	comp std	40/67		
03 54 W	+33 29		5-4	B9V	50	comp std	200/100		

* SCT TOO LONG! FE LINES PARTLY OR WHOLLY CUT OFF

* ARC WING 2 COLS DIST

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Note: due to number mix up, Let us outlaw numbers 36274, 75, In (GOD)

* baked July 6

Date July 6-7 Thurs-Fri **Observer** Bla-Ta **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36276	109 Vir	14 41.2	+2 19	612	IIaO	9/1.5		20:39	20:45	A	
36277	39 Dra	18 22.5	+72 45	"	"	9/1.5		20:53	21:03	B	
36278	Cyg X-1	19 54.6	+34 56	"	IIaO-b*	13/1.5		21:07	03:45	C	
36278 T1	Col-Hg wedge for	36278			"						
36276 T2	Col-Hg wedge for 36276,77,79,80				IIaO						
36279	32 Peg	22 16.7	+27 50	612	IIa-O	9/1.5		03:49	03 59	A	
36280	33 Agr	22 01.0	-14 21	612	"	13/1.5	62°F	04:02	04 10	B	
36280 F1	Focus			612	"	13	"			B	

Dome Temp. 6
Focus 40
Dome Temp.

Dome Temp. 60° H=42%
Focus 40-R
Dome Temp. 53° H=68%

Transparency Conditions scattered cloud but good

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A	00 42W	+2 05	2"	3.74	A0V	50	sp Bin-Blu	40/20		FINE
03	C	02 39E	+58 49	1"	4.93	A3V	25-25	"	40/20		FINE
45	C	02 32W	+35 09	1"-2"	3.74	B0I6	17-17-17	"	800/396	OVERDEVELOP (MAXIMUM)	FINE
								→	→	15 m @ 68° F	—
								→	→	9.0 m @ 65° F Inner-2	—
17	A		+28 14	1-2	4.83	B8V	18-18-18	Algol Std.	40/19		FINE
19	F	00 48W	-13 55	3	4.18	B8V	25-25	sp Bin-Blu	40/19		FINE
			no print out				8/8	no filter		UPPER SPECTROSCOPIC	

* baked July 6

Date July 7-8 Fri-Sat **Observer** B/a-Th **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36281	HD130109	14 41,2	+2 19	G-12	IIa-O*	13/1.5		20 39	20 43	A	0 45W
36282	HD152614	16 49,3	+10 20	"	"	13/1.5		20:45	20:49	B	0 1.E
36283	HD141458	15 44,1	+13 01	"	"	13/1.5	68°F	21:53	22:03	C	0 12W
36283T1	Cal step	wedge	180sec		"	for plates 36281—83, 85—					
36284	BD+40°4214	20 28.7	+40 36	G12	"	25/1.3		22:10	02:30	A	0 46W
36285	Algol	03 01.7	+40 34	"	"	9/1.9		02:38	02:50	C	0 29E
36285T1	Cal step	wedge	for 36284		"						
36286	Algol	03 01.7	40 34	G12	"	9/1.9		02:52	03 02	B	
36287	"	"	"	"	"	"		0305	03 15	A	0 02E
36 288	"	"	"	"	"	"		03 17	03 27	B	0 14E
36 289	"	"	"	"	"	"		03 30	03 38	C	0 26E
36290	30 Peg	22 16.7	+27 50	"	"	9/1.5		03 43	03 57	A	0 12W

Dome Temp. 6
Focus 40
Dome Temp. 5

Dome Temp. 64 40%

Focus 40 - 12

Dome Temp. 51° H = 81%

Transparency Conditions Hazy

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0043	A	0 45W	+2 04	1"-2	3.74	A0V	25-25	Sp. Bin-Blu	40/17		(illegible) FINE
0049	B	01 16E	+10 17	1-2"	4.30	B8V	25-25	"	40/17		(illegible) FINE
0103	C	01 02W	+12 53	2-3"	6.80	A0	17-17-17	"	400/240		(illegible) FINE
0210	A	00 46W	+49 05	2"	9.8	A?	17-17-17	Cyg X-3	800/225	OVERDEVELOP (MAXIMUM)	(illegible)
0250	C	05 29E	+40 55	2"	2.2-3.47	B8V	25-25	Rad. to Flare	40/29	Mid-Eclipse @ 03:50	FINE
											FINE
0302	A		+40 55	2"	2.2-3.47	B8V	25-25	Rad Flare	40/28		(illegible) FINE
0315	A	05 03E	"	"	"	"	25-25	"	40/28		FINE
0327	B	04 51E	"	"	"	"	30-30	"	40/28		FINE
0339	C	04 40E	"	"	"	"	30-30	"	40/28		FINE
0357	A	00 25W	+28 13	1"	4.83	B8V	25-25	"	40/15		FINE

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* baked July 6

Date July 8/9 '72 Sat/Sun **Observer** Bln - Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36291	HD152614	16 49.3	+10 20	G-12	IIa-O	9/1.5		22:20	22:44	A	
36292	HD164284	17 55.3	+4 22	"	"	9/1.5		22:47	23:31	B	
36293	HD161096	17 38.5	+4 37	"	"	13/1.5		23:33	23 43	C	
36294	HD187459	19 45.0	+33 11	"	IIa O-b *	13/1.5		23:47	01 41	A	
36294T1	Cal step wedge		180 sec		IIa O-b *	for plate 36294					
36294T2	Cal step wedge		"		IIa O	for plates 36291-93, 36295-					
36295	HD180163	19 10.4	+38 53	G12	"	13/1.5		01 48	0158	B	
36296	32 Peg	22 16.7	+27 50	"	"	9/1.5		02 02	0236	C	
36297	Algol	03 01.7	+40 34	"	"	9/1.9		0241	0253	A	
36298	"	"	"	"	"	"		02 56	03 06	B	
36299	"	"	"	"	"	"		03 09	03 18	C	
36300	"	"	"	"	"	"		03 20	0328	A	
36301	"	"	"	"	"	"		03 29	03 37	B	

Dome Temp. 57° H=66%

Focus 40-R

Dome Temp. 52° H=85%

Transparency Conditions Very Hazy!

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
8:44	A	0 42 W	+10° 17'	3	4.30	B8V	25-25	Sp. Bin-Bln	40/20		Fine
8:34	B	0 23 W	+4 24	3	4.79	B2Vc	17-17-17	"	800/400		Fine
8:43	C	0 53 W	+4 37	3	3.93	K2III	25-25	Std. Vel.	80/50		Fine
9:41	A	0 44 W	+33 26	2-3'	6.66	B0.5Ib	17-17-17	Sp. Bin-Bln	800/360		Fine
8:57	B	0 37 W	+39 09	1-2	4.3	B5V	17-17-17	B Std. Vel	80/40		Fine
8:36	C	0 52 E	+28 13	2-3	4.83	B8V	17-17-17	Algol Std.	200/100		Fine
8:53	A	0 52 E	+40 54	2"	2.2-3.47	B8V	17-17-17	Radio Flares	200/155		Fine
9:06	B		"	"	"	"	17-17-17	"	200/160		Fine
9:18	C		"	"	"	"	25-25	"	80/63		Fine
9:28	A	0 48 E	"	"	"	"	25-25	"	80/64		Fine
9:39	B	0 38 E	"	"	"	"	25-25	"	80/64		Fine

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* baked July 6

Date July 10-11 Mon-Tues Observer mcL-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36302	HD201433	21 04.4	+29 48	C-12	IIa06*	9/0.7	71°	00h00m	01 06	A	01h32E
36303	HD211153	22 10.1	+22 02	"	"	13/0.5		01h10m	02 54	B	0.21E
36303T1	Cal step wedge		180sec		"						
36304	HD213388	22 25.9	+51 54	"	"	13/0.4		02 57	03 59	C	0.31W
36304F1	Focus						69°			B	

Done Temp. 5
Focus 48
Done Temp.

Dome Temp. 61° 73%

Focus 40-R

Dome Temp. 57° 80%

Transparency Conditions Clear by 1 but hazy

200

Ending Time E.S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
[illegible]	[illegible]	01h02mE	+30 09	2-5	5.6-6.8	B9	17-17-17	V389 Cygni &	200/200		SL-STR
12 54	B	00 22 E	+22 26	2-3	7.7	G5III	17-17-17	Hd Vis Bin	800/400		FINE
2 59	C	00 30 W	+52 20	1-2"	7.4	G5III	17-17-17	Hd Vis Bin	300/400		FINE
	P	[illegible]					C/E	[illegible]	[illegible]	[illegible]	V.U. SL. [illegible]

201

Date July 11-12 Tues-Wed **Observer** Sy-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36305	48 Lib	15 52.5	-13° 59	G-12	IIa-O	13/.3	79°F	21:00	21:24	A	69.3W
36306	"	"	"	"	"	"		21:26	22:06	B	01.1W
36307	"	"	"	"	"	"		22:07	23'07	C	02.2W
36308	4 Her	15 52.1	+42° 51	"	"	"		23 12	23:40	A	02.5W
36309 T1	Cal sig wedge	180 sec			"						
36309	4 Her	15 52.1	+42 51	G12	"	13/.3		23:42	00:30	B	03.4W
36310	"	"	"	"	"	"		00:32	01:02	C	04.0W

Dome Temp. 67° H=7020
Focus 40-R
Dome Temp. 62 H=8020

Transparency Conditions very Hazy some cloud

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21 24	A	00 30W	-14 08	3"-4"	4.7	Be	17-17-17	Be program	200/65		FINE
22 36	B	01 11W	"	3½-8"	"	"	17-17-17	"	200/65		FINE
23 57	C	02 12W	"	2-3	"	"	17-17-18	"	200/65		J.S. WK
1 40	A	02 50W	+42 41	"	5.5	"	18-17-18	"	200/70		FINE
0 30	B	03 40W	+42 41	2-3	5.5	Be	18-18-18	Be prog	200/70		FINE
1 02	C	04 10W	"	"	"	"	18-17-17	"	200/26	Cloud Area - Please remove plates from oven (put in 1 AM Wed)	SC. WK

* baked June 28

Date July 12-13 Wed-Thurs Observer Wi-Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36311	α Lyr HD 172167 39 Dra	18 33.2	+38° 41	G-12	IIaO B*	13/.5	80°F	22:30	22:32	A	0°50E
36312	HD 170073	18 22.4	+58 45	"	"	"		22:52	23:52	B	0°15W
36313	η Lyr. HD 180163	19 10.4	+38°58	"	"	"		60:37	01:05	C	0°20E
36314	γ Aql. HD 186791	19 41.5	+10° 22'	"	"	"		01:15	02:00	A	0°30W
36314T1	calibration step wedge for plates 36311-				IIaO B*						
36314F1	focus test on 1 and/mi			G-12	IIIaO B	13	76°F			B	

Dome Temp. 80° H=74%

Focus 40 -2

Dome Temp. 66° H=81%

Transparency Conditions very hazy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0"56E	+38° 48'		0.0	A0 II	26-26	B/2 - Std Vel.	20/11		
0435W	+58° 50	3"	4.93	A1 II	17-17-17	B/2 - Spec. Bin.	400/200		
01400W	+39° 08'		4.3	B5	17-17-17	B/2 Std. Vel B Type	400/200		
01"23W	+10° 35'		4.15	K3 II	17-17-17	B/2 - Std. Vel.	400/240	clouds	
					8-8 no filter				

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Dated 1972 July 2 (14 hrs)

Date July 16-17 1972 Bu-Mon Observer McU-Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36315	HD167965	18 12.5	+42 08	G-12	IIa06*	13/0.5	72°F	20 51	21 07	A
36316	HD193024	20 46.5	+49 45	"	"	"		21 13	23 08	B
36317	HD192907	20 12.3	+77 25	"	-	9/0.7		23 18	23.31	C
36317	calibration									

Dome Temp. 54
From 48
Dome Temp. 6

Hour Angle End

Dome Temp. 64°F 85%

Focus 40-R

Dome Temp. 62° 90%

Transparency Conditions scattered clouds and haze

Reading Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
[illegible]	[illegible]	01 45E	+42 12	4"	5.51	PGI?	17-17-17	Bln Spec Bin	200/100		[illegible]
[illegible]	8	02 14E	+50° 05	4"	8.1	M3I-II	17-17+7	Hd Vic Bin	300/450		[illegible]
31	0[illegible]	01 16E	+77°40'		4.40	B9III	26-26	V 1359 Cyg Prog.	20/14	drop of water on primary closed up the shutter dripping now? H outside 92%	[illegible]
										FOCUS CHANGED FROM 40-R TO 20-R	

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* baked July 12 (4 hrs)

Date July 17-18 1972 Mo Tues **Observer** McU - Ri - Art Skill **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36318	HD148357	16 25.9	+02 12	GTZ	IIa06*	13/0.5	75°F	20 38	20:46	A
36319	HD152614	16 49.3	+10 20	"	"	"		20 49	21 00	B
36320	HD157965	18 12.5	+12 08	"	"	"		21 11	21 37	C
36321	HD156729	17 14.2	+37 24	"	"	"	73°F	22 10	22 42	B
36322	HD161868	17 42.9	+02 45	"	"	"		22 49	23.05	C
36322T1	calibration	step wedge	for plate		IIa06*	36318 - 36322				
36323	HD192685	20 11.0	+25 17	GTZ	IIa06*	13/0.5		01 46	0206	A
36324	HD201433	21 04.6	+29 48	"	"	13/0.7		02 10	04 04	B

Dome Temp.
Focus 22
Dome Temp.

Hour Angle End

Dome Temp. 64°F 75%

Focus 20-R

Dome Temp. 60°F 88°F

Transparency Conditions very hazy — cloud from ~2310 to 0130

:28

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0416E	+02° 05'	5"	3.86	A1V	17-17-17	Bln Spec Bin	80/40		FINE
0h25E	+10 17		4.30	B8V	17-17-17	"	80/40		FINE
01 10E	+42 01 21'		5.51	B6V?	17-17-17	"	200/160		FINE
00 52W	+37 23		4.79	A2V	17-17-17	"	80/40	Started Vcap — 0.5 count/min!	FINE
00 45W	+02 46		3.79	A0V	17-17-17	"	80/40	Heavy cloud ~2310	*
									*
01 19W	+25 36	6-8	4.59	B3V	17-17-17	Bln Spec Bin	200/100		V. SL. STR
00 35W	+30 10		3.8	B9V	17-17-17	V38 Kyg	400/240		FINE
						* BOTH ENV		SLIDE PLATE	

Date July 20-21 Thurs-Fri **Observer** LR-Te **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36325	+0180163	19 10.1	38 58	G12	IIaO	131.5	80°	21:57	22:11	A
~~36326~~										

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 80° H= 65%

Focus K0-R

Dome Temp. 75 H= 80%

Transparency Conditions Very hazy Cloud

Reading Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
[illegible]	A	01 23E	39° 08	1-2°	4.3	B5	17-17-17	Std Vel-B Type	200/100	Cloud	F-VG

211

* baked July 21

Date July 21-22 Fri-Sat **Observer** LR - TH **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36326	HD 191781	20h 06.6	45° 06	G12	IIaO-b*	13/.3	81	2250	23:26	A
36327	HD 201345	21h 03.9	33° 18	G12	IIaOb*	13/.3		23 36	1:60	B
36328	HD 208819	22 01.0	-14° 21'	G12	IIaO-b*	13/.5		1:17	1:29	C
36328T1	Cal Step	wedge	182sec		DaO-b*					
36328A	HD 219688	23h 12.7	-9° 44'	G12	IIaOb*	13/.5	74°	1:40	1:50	A

Done Temp. 7
Focus 21
Done Temp.

Dome Temp. 73° H = 69%

Focus 20-12

Dome Temp.

Transparency Conditions very good

(Pigeon with foot tag 6571 CU 72
Ex-mtr very bad - needs drying chemicals)

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
22 26	A	01 01E	45°23	2-3"	9.0	B	17-17-17	Ring Seed	25/1260	not 191781 ! LR.	FINE
1.4	3	00 22m E	33 20	3"	7.5	B0	17-17-17	" "	800/2102	some cloud Sq. Grp. + Dumb FINE
1 37	0	00 53E	-13 54	2-3"	4.18	B8	25-25	sp Bin-Bla	40/19	
										done drying
1 50		01 44E	-9 14	2-3"	4.84	B5	25-25	sp Bin-Bla	40/18	closed - too humid

213 G11, 12 – Spectra
Included as H72 –

* Ended July 21

Date July 22 1953 Jan 23rd **Observer** W.-Th. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36329	BD+40°4118 Cyg X-3	20h28m.7	40°58'.1	G12	IIaO	1313		00:30	03 30	A
36329½	Cyg X-3	"	"	"	"	"	"			
36330	55 Cyg	20 49.5	+45 45	G12	"	1313	"	03:34	03 40	C
36331	HD 186771	19 46.5	+40 22	"	"	"		03:47	03 53	A
36332	HD 210918	22 05.2	+5 42	"	"	1315	75	03 57	04 03	B

Dome Temp. 70 H = 75%
Focus 20-R
Dome Temp. 72 H = 87%

Transparency Conditions ...

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 15W	40 48	2"	9.8	A	17-14?	Eq 1-3	8 3/4/100 ?	Overdevelop (max 15 m) wasted time on wrong plate Cloud ? Inversion	WEAK
									—
02 39W	46 03	3"	4.7	K2	17-24	Eq 1-3	4/16		FINE
03 55W		1"	4.5	K3II	22-25	Eq 1-3	4/18		sl. unk
01 90W	+6 07	1"	4.01	K2II	25-25	Eq 1-3	4/19		FINE

215

* Dated 1972 July 24

Date July 23-24 Sun-Mon **Observer** Neil-Tom **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36333	HDIH1455	15 44.1	+12 01	G-12	IIa-O*	12/0.5		20 39	21 37	A
36334	HD198624	20 46.5	+49 45	"	"	8/0.4	76°F	21 44	23 19	B
36335	HDIH2407	20 12.3	+17 25	"	"	9/0.7		23 49	23 57	C
36336	HDA6729	20 25.3	+93 05	"	"	12/0.4		00 18	02 14	A
36336T1	C-1 star	same	same		"					
36337	HD214423	21 04.6	+24 43	G-12	"	8/0.7	73°F	02 20	02 46	B
36338	HD 213968	22 38.9	+21 54	"	"	15/0.4		02 51	03 17	C
36339	HD 222368	23 34.8	+5 05	"	"	13/0.5		03 51	03 57	A
36339F1	Focus Test			"	"	13				B
36340	HD 219684	23 12.2	-9 44	"	"	13/0.5		04 02	04 08	C

Dome Temp. 73°F H=62%

Focus 20 -1

Dome Temp. 63° H= 83%

Transparency Conditions Excellent

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		01 39W	+12 52	3"	6.80	[illegible]	F+F-17	[illegible]	220/130		FINE
		01 14E	+50 05	[illegible]	8.1	[illegible]	17-17-17	[illegible]	400/270		SC. WK
		00 21E	+72 40	4-6"	4.40	[illegible]	25-25	[illegible]	40/26		FINE
		01 25W	+3 23	[illegible]	7.7	[illegible]	17-17-17	[illegible]	400/240		SC. WK
											—
		01 30W	+20 10	3-4	5.6-5.3	[illegible]	17-17-17	[illegible]	220/120		FINE
		01 08W	+52 19	3"-5"	7.4	[illegible]	17-17-17	[illegible]	440/260	slit 15 b.w.	SC. WK
			+5 33	3"	4.64	[illegible]	25-25	[illegible]	40/23		FINE
											SC. C ENTR TO RED
		00 41W			4.24	B5	25-25	[illegible]	40/17		FINE

* used July 29

Date July 21-25 Mon-Tues **Observer** McM-Tm **Julian Day**

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
~~36341~~	~~HD 187459~~	~~19 45.0~~	~~33 11~~	~~612~~	~~Eastb~~	~~13/5~~	~~77°~~	~~22:33~~			
36341	HD 211391	22 04.6	+29 48	612	Ea-b	9/0.7	76°F	00 12	00 44	B	
36342	HD 211391	22 04.6	+29 48	"	"	13/4	74°F	00 48	02 26	C	
36342T	Cal Trip	Ledge	Ledge	"	"						
36343	HD 212291	22 17.5	40 10	612	"	13/4		02 29	03 39	A	
36344	HD 212291	22 04.6	+29 48	"	"	9/0.7		03 31	04 01	B	
36345	HD 222368	23 31.8	+5 05	"	"	9/1.5		04 04	04 14	C	

Dome Temp. 70° N-51°

Focus 20-18

Dome Temp. 61° N-59°

Transparency Conditions Scattered cirrus

Excellent night

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
			6.66	RJSW	17-	Spec-Eb	22/	Start of Eb spectra	
5° 36 E	+28 09	2-3"	5.6 5.9	E9V	17-17-17	V389Cyg mag	20/40		FINE
00 06W	+3240	2"	7.7	F8V	17-17-17	Vis Eb	830/450		FINE
010W	+4036	2-3"	7.2	K2V	17-17-17	Vis Eb	900/225		FINE
0218W	+3010	1-5	5.6 5.8	B9V	17-17-17	V389Cyg mag	300/120		FINE
0031W	+53	3-4	4.64	F7V	25-25	std vel	40/23		

219

Date July 25-6 Tues-Wed Observer L.E.-T.M. Julian Day

Done Temp.
Focus 22
Done Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36316	ND 2001 [illegible]	21h 02.9	25.00	6 in.	I-O	18/3		9:21	9:44	A	

Dome Temp. 60° H: 80%

Focus 20-R

Dome Temp. .....

Transparency Conditions Scattered clouds & haze very windy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 45	33 21	3-4"	7.5	B	17-11-5	Tau Search	400'/112°	[illegible] 3/10 AM & [illegible]	FINE

221

* baked July 29

Date July 26-27 Wed. Thurs **Observer** Tu - Wi **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36343	HD 134897	14 11.1	+19 42	GE	IIa-O*	13.5		20:58	21:—	A
36348	"	"	"	"	"	"		21:05	21:06	B
36349	HD 172044	18 32.9	+33 22	"	"	"		21:20	22:04	C
36350	39 Dra	18 22.5	+58 45	"	"	"	64°F	22:23	22:49	A

Dome Temp. 58° H-63%

Transparency Conditions Cloudy

Focus 20-R

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0246W	———	3	4.29	K0 III	25-25	std vel	40/34	repeat	SL. STR
0252W	———	"	"	"	25-25	"	40/25		FINE
0030E	+33 31	"	5.4	B9	17-17-17	B std vel	200/90	cloud	(CLOUDY) FINE
0037W	+58 49	"	4.93	A1V	17-17-17	Sp B½-R½	200/100	"	(CLOUDY) FINE

2223

* baked July 27

Date July 27-28 Thurs.-Fri. Observer Jn-LR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36351	HD 166353	17 57.6	02 56	G12	IIa-O-6*	13/.5	67°F	20:29	20:35	A	
36352	HD 194280	20 19.7	38 37	"	" -6'	18/.3	65°	20:47	22:59	B	
36353	HD 193516	20 15.5	37 28	"	"	"	54°	23:05	01:05	C	0½
36354	HD 218195	23 01.0	57 43	"	"	"		1:13	02:31	A	
36354 T1	Cal step	wedge	180sec		"						
36355	HD 14443	02 14.9	+56 42	G12	"	18/.3		3:40	3:52	B	
36356	HD 2905	00 27.3	+62 23	"	"	13/.5		3:59	4:03	C	
36356 F1	Focus			"	"	13	59°			B	

Dome Temp. 60° H 60%

Transparency Conditions Excellent

Focus

Dome Temp. 52° H 89%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 19E	+3 00	1"-2"	4.0	B5	25-25	Std. vel.	40/17		STRONG
01 17E	+38 54	"	3.15		15-19-17	"	260		FINE
00 52W	+37 44	"	9.17	Bp	17-15-17	"	800/265		FINE
00 28E	+58 08	"	8.61	B3	17-17-17	"	800/260	Fld d-own	FINE
02 41E	+57 02	2"-3"	8.4	C	17-17-17	R... S...	800/160		FINE
02 21E	52 48	2"	4.3	B0	25-25	"	40/17		(GUIDING) STRONG
		Just out			8/8	no filter			GOOD
			Plate	36846 - 56		dew.	9.0 m @ 68°F / 28 July		

125 #1

* baked July 27
** baked July 24

Date July 28 – 29 1977 **Observer** Sy – Tw **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36357	4 Her	15 52.14	+42 51.4	G12	IIaO^{b*}	13/3		20:37	20:51	A
36358	"	"	"	"	"	"		20:53	21:05	B
36359	"	"	"	"	"	"		21:07	21:19	C
36360	"	"	"	"	"	"	67°	21:20	21:32	A
36361	"	"	"	"	"	"		21:34	21:46	B
36362	"	"	"	"	"	"		21:48	22—	C
36362 T1	Cal step wedge		180sec		"					
	~~4 Her~~	~~15 52.1~~	~~+42 51~~	~~G12~~	~~IIaO^{b**}~~					~~B~~
36363	NGC 347	20 27.2	+43 59	G12	IIaO^{b*}	13/3		22:09	23:25	A
36364	"	"	"	"	"	"		23:25	01 01	C
36365	"	"	"	"	IIaO^{b**}	1	64°	01:01	02 43	B
36365 T1	cal step wedge		150 sec		"	foi	36365			
36366	α Cyg	20 38.0	44 55	G12	IIaO	9/5		02 54^{30}	02 56^{00}	A
36367	"	"	"	"	"	"		2 57^{45}	02 59^{30}	C
36368	"	"	"	"	"	"		3 02^{30}	3 04^{45}	B
36369	"	"	"	"	"	"		3 06^{00}	3 08^{00}	A

Dome Temp. 54°F 64%

Transparency Conditions cirrus clouds

Focus .....

Dome Temp. .....

Ending Time EST	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
57	A	1 06W	43 42	1-2"	5.5	B	25-25	Be	200/68		SC. STR
65	B	"	"	3"-4"	"	"	17-17-17	"	200/65		U.SC. STR
17	C	1 34W	"	2-3"	"	"	17-17-17	"	200/65		U.SC. STR
32	A		"	2"	"	"	17-17-17	"	200/65		U.SC. STR
46	K	2 00W	"	"	"	"	17-17-17	"	200/65		SC. STR
7	C	2 15W	"	"	"	"	17-17-17	"	200/68		U.SC. STR
											—
			~~———~~		~~5.5~~	~~B~~		~~Be proj~~	~~200/~~		
45	A	0055E	+44 16	1-2"	8.0	CO	17-17-17	Be proj	800/400		FINE
17	C	0040W	"	"	"	"	17-17-17	"	800/400		
47	B	0224W	"	"	"	"	17-17-17	"	800/400		FINE
00	A	0226W	———	2"	1.4	CA	45	Be proj	40/20	NO NUMBERS	
50	C			"	"	"	45	"	40/20		
45	B			"	"	"	45	"	40/20		SC STR
09	A	2 38W		"	"	"	45	"	40/20	CM	SL. STR

927. #2

Date July 29 **Observer** Sq - TW **Julian Day**

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36370	α Cyg	20 38.0	+44 55	G12	IIaO	9/15		3 12 00	3 13 10	L	
36371								3 16 00	3 17 50	C	
36372								3 21 30	3 23 00	A	
36373								3 25 30	3 27 00	B	
36374								3 31 00	3 32 30	C	
36375								3 34 30	3 36 30	A	3 06 W
36376								3 46 30	3 48 30	B	
36377								3 51	3 52 30	C	
36378								3 55 00	56 30	A	
								~~3 59 30~~		B	
36379								4 00 40	4 02 00	L	
36379T	Cal	step	wedge		IIaO		62°				

Dome Temp. ..... Transparency Conditions .....

Focus .....

Dome Temp. .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
13[16]				2"	1.4	CA	45	Beging	40/20		SL. STR
[illegible]	C						45	"	40/20		FINE
[illegible]	A						45	"	40/20		FINE
[illegible]	B						45		40/20		FINE
[illegible]	C						45		40/20		FINE
36[20]	A	3 06 W					45		40/20		FINE
49[30]	B						45		40/20	broken 1"	FINE
50[30]	C						45		40/20		FINE
50[30]	A						45		40/20		
	B						~~45~~		~~40/20~~	in box #2	
52[30]	C						45		40/20	box #2 "	FINE

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Date ..... Observer ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36380	HR 6707	17 54 7	30 12	"	"	"		00 32	05 [illegible]	A
36381	HR 6707	17 54 7	30 12	"	"	"		01 01	[illegible]	B
36382	HR 7157	18 52 3	43 49	"	"	"		02 17	02 30	C
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
36383	HR [illegible]	19 36 1	17 42	"	"	"		03 45	03 55	A

Dome Temp.
Focus .....
Dome Temp.

Hour Angle End

Dome Temp. 64° H=53%

Transparency Conditions .....

Focus .....

Dome Temp. 62

Hour Angle End	Declination	Seeing	V-I Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3 36 W	45 2 23		1.16	G2 II	90-90-90	IR spec	40/130		
	+30 15		0.63	F2 II	90-90	"	40/113	cut short - no cuff time.	
	+11		3.95	gM5	90 90 90	"	40/23		
1 55	09 30 W	+18 01	0.95	[illegible]	[illegible]	[illegible]	40/100	[illegible]	

* July 24
** baked July 12

Date Sun.-Mon. July 30-31, 1972 **Observer** McL-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36384	HD141458	15 44.1	+3 01	G-12	IIaO b*	13/0.5	71°F	20 42	22 28	A	
36385	HD193432	20 15.1	-13 04	"	IIaO b**	9/0.7		22 32	23 12	B	
36386	HD192907	20 12.3	+77 25	"	IIaO	9/0.7		23 20	23 32	A	
36387	HD201433	21 04.6	+29 48	"	"	"		23 38	00 14	B	
36387T1	Cal step	wedge	180 sec		IIaO	for plates		36386, 87, 36390			
36387T2	" "	"	"		IIaO-b**	for plate		36385			
36388	HD211419	22 11.8	+33 14	G12	IIaO b*	13/1.4		00 16	02 12	C	
36389	HD221377	23 26.6	+51 52	"	"	"		02 19	03 57	A	
36390	HD222368	23 34.8	+5 05	"	IIaO	13/1.5	65°	04 00	04 14	C	
36390F1	Focus			"	"	13	"			B	

Dome Temp. 60°F, H = 70%

Transparency Conditions Hazy but good

Focus .....

Dome Temp. 60° H=79%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 59W	+12 54	2"-3"	6.80	A0	17-17-17	BlnSpecBin	400/260	Lost 15m – burned-out drive fuse broken 2 pc	FINE
00 50E	-12 50	2"-3"	4.84	B9 II	17-17-17	1389 Cygni Comp	200/130		FINE
00 21E	+77 41	"	4.40	B9 III	25-25	"	40/26		FINE
00 27E	+30 07	"	5.6-5.8	B9 V	17-17-17	"	200/130		
								Extra plate, somewhat erratic, unexposed	
00 16W	+33 37	2-3	7.74	F8 V	17-17-27	Vis Bin-Hel	800/450	broken 2 pcs.	
00 45W	+52 18	1"-3"	7.75	F4 III	17-17-17	"	800/450	fld drawn	
00 54W	+5 34	2"-3"	4.64	F7 V	25-25	std vel	40/25		
	in in	fair out			8/8	no filter			GOOD
								Anson - Please wt plateless put in over 1 bar I'm incapable of cutting	
					Note				

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Baked July 31

Date Thurs Fri Aug 3-4 1972 Observer LR - Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36391	HD 193516	20^h 15.5	37° 28'	G12	~~IIaO B~~	18/.3	64°F	21:50	01:34	A
36391 T1	calibration step wedge	for plates	~~36391~~ 36392 -95		~~IIaO B~~	*				
36392	HD 219688	22 05.7	+05° 42'	G12	IIaO B	13/.5		1:45	01:50	B
36393	HD 201433	21 04.4	29° 48	"	IIaO	13/.5		1:56	02:23	C
36394	HD 14633	02 16.7	+41° 02'	"	"	18/.3		02 30	03:12	A
36395	HD 14951	02 19.3	-10° 09	"	"	13/.5		03:18	03:42	B
36396	HD 2905	00 27.3	+62° 23'	"	"	13/.5	60°F	03:49	03:55	C

Dome Temp.
Focus
Dome Temp.
Hour Angle End

Dome Temp. 60°F 73%

Focus .....

Dome Temp. 50°F 70%

Transparency Conditions clear up 21:30
some clouds after 00:00
very bright aurora

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01"50W	+37°45'	4	9.17	Bp	17-17-17	Bin. Search	800/200	23:10 Aurora covering 2/3 of sky! clouds over developed + lost (first plate)	** FINE
		9 m @ 68°F				in MWA-2		12" color *	
00'16W	+06°07	3	4.01	A2 II	17-17-17	Bla Spectrum Binary	40/20	still lots of aurora around	FINE
01"50W	+30° 10'	4	5.6-5.8	A0	17-17-17	Spec. Bi-Bin	200/100	see thru aurora	FINE
02 34E	+41° 25'	4	7 26	B	17-17-17	Bin. Search	400/140	"	Sc. STR
02 07E	+10° 32'	"	5.38	B6	17-17-17	Spec. Binary	200/100	fair	FINE
00"03 E	+62° 50'	"	4.30	B0	25-25	Bin Search	40/19		FINE

* IF A PLATE IS FORCE DEVELOPED, THE CALIBRATION FOR IT IS DIFFERENT

** SHOWS AURORA EMISSION

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* July 31

Date Aug 4-5 1972 Fri-Sat **Observer** W. -R. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36397	164353	17 55.6	+02° 56'	G-12	IIaO B*	13/.5		20:35	20:42	A	00°40E +0
36398	226868 (Cyg X-1)	19 54.6	+34° 56'	G-12	IIaO R*	18/.5	58°F	20:58	02:08	B	01°50W +2
36399	HD 1061 35 (UU) Psc	0 09.8	+8° 16'	G-12	IIaO B*	13/.3		02:15	02:35	C	5°11E +0
36399/1	calibration step wedge				IIaO B*			plate 36397 - 36400			
36400	+10212943	22 22.5	+04°12	G-12	IIaO B*	13/.5		02:43	03:07	D	5°2W +0
36401	HD213534	22 26.9	+29° 02	"	"	"	56°F	03:17	03:50	B	6°11W +1

Dome Temp. 52°F 56%

Focus .....

Dome Temp. 48°F 65%

Transparency Conditions ..... good .....

an aurora again tonight

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00h40mE	+03°00	3	4.0	B_5	25-25	B TYPE STD. VEL.	40/20		FINE
02h50mW	+35° 11'	2	9.74	B0Ib	17-17-17	Bln	800/500		FINE
01h00mE	+08° 43'	2	6.15	$A9_5$	17-17-17	Bln	200/60		FINE
	9.0 min		@						
01h20mW	+04° 37	2	5.9	K0	17-17-17	Stan Vel.	200/160		FINE
01h57mW	+29° 27	2	6.28	A5	17-17-17	Bln	200/100		FINE

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* July 31

Date Aug 5-6 Sept Sun 1972 **Observer** Wi-Ri **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36402	β Cep	1972 17 42.0	1972 +04 35	G-12	IIaO B*	13/1.5	66°F	20:26	20:33	A
36403	HD 172044	18 32.9	+33° 23	G-12	IIaO B*	13/1.5		20:40	20:50	B
36404	HD 226868 = Cyg X-1	19h 54m.6	+34° 56'	G-12	IIaO B*	13/1.5		21:00	02:25	C
36405	calibration	step wedge	for plates	36402 + 36405						
36405	HD 1061	0h 09 50	+8° 16'	G-12	IIaO B*	13/1.3		02:31	03:05	A
36405	calibration	step wedge	for plates	36402 + 36403						

Dome Temp. 5
Focus
Dome Temp. 5

Hour Angle End

Dome Temp. 55°F 69%

Focus .....

Dome Temp. 51°F 74%

Transparency Conditions ~~clear~~ hazy with some thin cirrus
aurora again tonight

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 28 E	+04°37	2	2.77	K2III	25-25	std-Bln	40/32		FINE
01 05 E	+33°30	2	5.4	B9	17-17-17	B-std-Bln	40/20		FINE
03 10 W	+35°10'	2	9.74	B0Ib	17-17-17	Cyg X-1	80/411	clock fuse blown one thru cirrus @ 23.30 overdevelop, need to check exposures	FIGURE?
		12 min @ 68°F / mcvp-2							
H 00 26 W	+08°44	2	6.15	A9s	17-34	UU Psc	400/35	data overdevelop	WEAK
		9.0 min @ 67°F / mcvp-2							

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+ baked Aug 5-6

Date Aug 9-10 Wed-Thurs **Observer** Wi-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36406	124897 2 Boo	$14^h 11.1^m$	+19°42'	G-12	IIaO-6*	18/.5	61°	20:43	20 44	A
36407	HD 141458	1544.1	+13°01	G-12	"	13/.5		21:15	23:01	B
36408	39 Dra	18 22.5	+58 47	"	"	"		23:07	23:19	C
36409	HD213534	$22^h 26^m.9$	+29°02'	"	"	13/.5		23:33	00:07	A
36410	UU Psc	00 09.8	+8 16	"	"	13/.3		00:13	00:43	B
36410T1	Cal step wedge		180sec		"					
36411	HD 218154	23 00.6	+24 07	G12	"	13/.3		00:48	01:48	C
36412	UU Psc	0009.8	+8 16	"	"	13/.3		01:58	02:22	A
36413	55 Cyg	20 45.5	+45 45	"	"	13/.5		02:29	02:42	B
36413F1	Focus			"	"	13	55°+			

Done Temp.
Focus
Done Temp.
Hour Angle End

Dome Temp. 54° 66%

Focus

Dome Temp. 46° 89%

Transparency Conditions Excellent - some cloud
slight Aurora again

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3hr 28m W	19° 25'	3"	1.29	K2 III p	50	Standard Vol	40/25		FINE
4 10W	+12 53	3"-5"	6.80	A0	17-17-17	sp Bin-Bln	400/250	2nd Pr.	(GUIDING) FINE
1 54W	+58 50	3"	4.93	A1 V	17-17-17	"	200/93	"	FINE
1.25E	+29 27	3"-5"	6.28	A5	17-17-17	"	400/200	"	(GUIDING) FINE
2 33E	+8 43	"	6.15	A9s	17-17-17	"	200/60	1st pr.	FINE
								Dome driping	—
0 19W	+24 35	"	7.01	A0	17-17-17	sp Bin-Bln	400/181	(Tom, you should check this Fld) 2nd Pr. Fld down	FINE
0 53E	+8 44	"	6.15	A9s	17-17-17	"	200/65		FINE
2 38W	+46 07	"	4.7	B2	17-17-17	B std vol	200/90		(GUIDING) FINE
					8/8	no filter			SL. CENTRE TO RED

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* Baked Aug 5-6 '72

Date Aug 10-11 Thurs-Fri **Observer** Tn-She **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36414	HD [illegible]	21 0.4	+67 47	G12	IIa-O*	131.5	62°F	20:34	21:58	A
36415	HD 216778	21 39.3	+9 25	"	"	"		22:14	22:26	C
36415 T1	Col - step + edge		180sec		"	for plates 36414,15				
36416	BD +65° 1627	21 40.5	+65 39.1	G43	"	181.3	60°F	23:3[illegible]	00:55	B
36416 T1	Col step + edge		180sec	for plate 36416	"					

Dome Temp. [illegible]
Focus
Dome Temp.

Hour Angle End

Dome Temp. 59° F H=61%

Transparency Conditions very cloudy

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2 02E	+68 06	1"-2"	7.2	B5	17-17-17	ref neb	400/185	cloud	(GUIDING) FINE
2 15E		1"-2"	3.98	K2Ib	25-25	std vel	200/93		(GUIDING) WEAK
						9.0 m @ 68° F in NGC 2			———
00 15W	+66 01	1"-2"	10.15	B2	5-5-5	ref neb	200/33	cloud again) overdevelop	sl. wk
						15 m @ 68° F in NGC 2			———

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* baked Aug 5-6

Date Aug 12-13 Sat - Sun **Observer** L.R. - T.n **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36417	HD 201345	21 03.9	33° 00'	G-12	IIIa-J*	13/.3	69°	22:25	23 : 11	A
36418	HD 199280	20h 19.7m	38° 37	"	"	18/.3	67°F	23:21	01 : 57	B
36419	HD 14633	2h 16.7	41 02	"	"	18/.3		2:07	02 : 35	C
36419 T1	Cal step	wedge	180sec		"					
36420	HD 23408	03 39.9	24 04			13/.5		2.47	2 : 53	A
36421	UU Psc	00 09.8	08 16	"	"	13/.3		3:07	3 : 33	B
36422	HD 219688	23 12.7	-9 44	"	"	13/.5		3:38	3 : 52	C
36423	HD 14951	2h 19.3m	+10° 09			13/.5		3:57	4 : 11	A

Dome Temp. 64° H = 83%

Transparency Conditions very good but hazy

Focus .....

Dome Temp. .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
23·11	A	00 47E	33 21	1"-2"	7.52	B0	17-17-17	Bin. Std	400/130		(GUIDING) SL. STR
01 57	B	0244W	38 55	"	9.15	B	17-17-17	"	800/260		FINE
02 35	C	02 37E	41 29	1"-3"	7.26	B	17-17-17	"	400/130		(GUIDING) FINE
53	A	03 41E	+24 19	2-3	3.8	Eq MS	25-25	Std vel.	40/20		SL. STR
33	B	0030W	+8 44	2"	6.15	A9.5	17-17-17	Sp. Bin Bm	200/67		FINE
52	C	01 46W	-9 15	3"	9.24	B5V	25-25	"	40/20		(GUIDING) FINE
9:11	A	01 03E	+10 35	2"	5.38	B6	25-25	"	200/90		(GUIDING) SL. STR

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* boxes Aug 11 '12

Date Aug 14-15 Mon-Tues **Observer** McL-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36424	HD172182	20 08.5	+38 09	G12	IIaO*	13/0.3	64°F	21 42	23:58	A	1 04W
36425	HD201433	21 04.5	+29 48	"	"	9/0.7		00 02	00:32	B	0 41W
36426	HD212212	22 17.5	+40 10	"	"	13/0.4	61°F	00 36	02 04	C	2 14
36427	HD213381	23 02.5	+20 03	"	"	"		02 08	03 42	A	3 37
36427 II	Cal step	wedge	180sec		"						
36428	M W Psc	00 098	+8 16	G12	"	13/0.3	60°F	03 45	04:15	B	1 21
36429	HD13484	02 57.1	+03 42	"	"	13/0.5		04 19	04 25	C	0 38
36429A	Focus Test			"	"	C					

Done Temp.
Focus
Done Temp.

Dome Temp. 56° H = 86%

Transparency Conditions Excellent after 2130 some cloud later

Focus .....

Dome Temp. .....

Good Aurora again -02^h

Ending Time E.S.T	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3:58	-	1 04W	+38 24	6"	8.0	K0III	17-17-17	Hd Vis Bin	800/360		FINE
0:32	1	0 41W	+30 10	3-6"	56-58	A0	17-17-17	V389 Cygni	200/125		(GUIDING) FINE
2:49	1	01 01W	+40 25	2-4	7.8	K2III	17-17-17	Hd Vis Bin	800/400	cloud	FINE
3:42	7	01 53W	+20 30	2-6"	7.7	K0I	17-17-17	"	800/400		FINE
					9.0	m @ 68°F		in mgr-2			
4:5	2	1 20W	+08 44	2-3	6.6	A9.5	17-17-17	Bin Spec Bin	200/67		FINE
5:16	6	01 18E	+04 02		4.16	M2III	25-25	STD VEL	40/50		FINE
							8-8	No filter		SC. CENINE TO VIOLET	

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* baked on Aug 10/11

Tues-Wed

Date Aug 15-16 **Observer** Sy-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36430	55 Cyg	20 45.53	+45 44⅛	G-12	IIaO*	13/.5		20 22	20 34	A	
36431	"	"	"	"	"	"		20 36	20:48	B	2.7E
36432	"	"	"	"	"	"		20 51	21:01	C	
36433	"	"	"	"	"	"		21 04	21:14	A	
36434	"	"	"	"	"	"		21:16	21:25	B	
36435	"	"	"	"	"	"		21:27	21:35	C	
36436					"	"	65°	21:36	21:50	A	1.3E
36436 T1	Col step	wedge	180sec		"	plate	36430 - 36441				
36437	MWC 381	21 52.9	+64 50.7	"	"	13/.3		22-30	23:04	C	1.7E
36438	"	"	"	"	"	"		23:13	23:29	A	
36439	"	"	"	"	"	"		23:32	23:51	B	
36440	"	"	"	"	"	"		23:53	00:07	C	
36441	"	"	"	"	"	"	63°	00.08	00 20	A	1.5E
36442	MWC 376	21 39.28	57 16.7	"	IIaO	"		00 30	01:08	B	
36443	N Del 67	at 1970 20 41	+19 1.8	"	"	22/3		01 30	03:40	A	4.2W
36444 T1 (Grism) 36444 Calib 2 PSC		23 36.9	1 1°14′	"	"	22/3		03 46	03 52	B	1.3W
36444											

Dome Temp.
Focus
Dome Temp.

Dome Temp. 8° H=50%

Transparency Conditions Fair - Cirrus clouds

Focus .....

Dome Temp. .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3 [illegible]	I	\	46 03	2"	5.2	B+	17-30	Be	200/100	Grey,	(GUIDING) SL. STR
3 48	G	2 38E		"	"	"	25-25	"	200/100	The automatic	(GUIDING) SL. STR
3 51	C						25-25	"	200/100	guider does not work	SL. STR
4 14	A						25-25	"	200/100	properly, The magnetic	SL. STR
4 25	B			2-3			25-25	"	200/100	catch seems to work	SL. STR
4 31	C		cleaned	window after	1st		25-25	"	200/96	only intermittently.	(GUIDING) SL. STR
4 50	A	1 36E		"			25-25	"	200/85	(cloud) Sanyal	SL. STR
											—
3 04	C	1 30E	+65° 15'	2-3	5.8	B"	17-17-17	"	200/70	Fld drawn) slit length (slipe) uncertain	SL. STRONG.
3 29	A						17-17-17	"	200/71		STRONG
3 51	B						17-17-17	"	200/74		STRONG
3 07	C			1"-2"			17-17-17	"	200/70		(GUIDING) SL. STR
0 20	A	0 15E		1"-3"			17-17-17	"	200/70		SL. STR
1 08	B		57° 41'	2"-3"	7.1	B"	17-17-17	"	400/140		(GUIDING) FINE
1 49	A	4 21W	19 07	2"	9.5		17-17-17	"	800/61	Among Please over developed plate 43, together: MWP2 15m (at far right of exp box)	VERY WK 43 TIR 44
2 52	B	1 33W	+1 44	"		A5	22-22		200/57		FINE

Date Fri-Sat Aug 18-19 **Observer** Tn - Wat **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36445	ADS 12520	19 25.2	+2 41	G12	IIaO	13/.5		21:47	00 25	A	
36445 TI	Cal step	"	180sec		"						
36446	HD 206778	21 39.3	+9 25	G12	"	13/.5	67°	00 44	00 52	B	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 75° H = 75%

Transparency Conditions scattered cloud

Focus —

Dome Temp. 60 90% : Dome dripping

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02 30W	+2 55	2"-3"	7.85	K5 Ib	17-17-17	Late Type	400/2.5	~~Late~~ Cloud	WEAK
00 42W	+9 51	2"	4.0	K2 Ib	17-17-17	Late Type	200/160	more cloud	FINE

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baked Aug 18/19

Date Aug 19-20 Sat-Sun **Observer** LR-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36447	HD 1835[illegible]	20 15.5	+37 28	G12	IIaO-6	18/13		22:53	00 51	A	2 HW
36448	HDE 235679	21 55.0	+54 01	"	"	"		01 03	03 55	B	3 41/
36448 T1	Cal step	wedge	180 sec	"	"	"					
36449	HD 2905	00 27.3	62 23	"	"	13/5		04 02	04:06	C	
36450	MM Psc	00 09.8	+8 16	"	"	13/3	65°F	04:11	04 35	A	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 63° H: 83%

Transparency Conditions Excellent

Focus .....

Dome Temp. 60° H: 76%

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0 51	A	2 10W	+37 43	2.2	9.17	Bp	17-17-17	Bin - search	800/265	Fld drawn	FINE
255	A	3 34W	+54 25	"	9.21	B2	17-17-17	"	800/265	Fld drawn	FINE
								"			—
1 ..	C	01 12 W	62° 50'	1-2	4.3	B0	25-25	"	40/18		(GUIDING) SL-STR
1 ..	F	01 58W	+8 43	2-3	6.1	A9s	17-17-17	Sp Bin - Vis	200/65		FINE

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* baked Aug 18/19

Date Aug 20-21 Sun-Mon **Observer** LR=Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36451	HD 164353	17 55.6	02 56	G-12	I.O-6*	131.5		19:51	1958	A
36452	HD 194080	20 19.7	+38 37	"	"	15/13	70°	20:08	2252	B
36453	HDE 235679	21 55.0	54°01'	"		18/13		23:02	0230	A
36454	HD 218195	23 01.0	57°43'	"	"			2:36	04:44	B
36454 II	written 45T	Cal step	wedge		"					
36454 III	Focus			"						B

Done Temp. 6
Focus
Done Temp.
Hour Angle End

Dome Temp. 68° H=46%

Transparency Conditions Excellent

Focus .....

Dome Temp. 60 80%

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
[illegible]	A	00 22E	+02:58	1"-2"	4.0	B5 SG	25-25	Std Vel	200/90		STRONG
2 52	B	00 12W	38:55	"	9.15	B	17-17-17	Bin. Search	250/265		D. SL. STK
3 20	A	02 14W	54:24	"	9.21	B2	17-17-17	"	800/275	out of b[illegible] (eq. nts.)	SL. STK
4-4	B	03 32W	58:09	"	2.61	B3	17-17-17	"	800/250		(GUIDING) SL. STK
											—
	B						8/8	no filter			CENTRE TO VIOLET

*Dated Aug 18/19

Date Aug 21-22 Mon-Tues **Observer** LR-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36455	HD201345	21 03.9	33 00	G-12	IIaO*	13/1.3		20:16	22 12	A
36456	HD 194280	20 19.7	38 37	"	"	18/1.3	73°F	22:20	01 08	B
36457	HD 218195	23 01.0	57 43	"	"	13/1.3		01:14	04 40	C
36457T1	Cal step	wedge	180sec		"					
36458	20 Tau	03 39.9	+24 04	G12	"	13/1.5		04:43	04'51	A
	Aug 25/72	Test of	new	1200	g/mm	grating	for	Plate		
36458T1				G16	IIaF	13				C
" T2				"	"	"				B
T3				"	"	"				B
T4				"	"	"				B
T5				"	"	"				
T6				"	"	"				
T7				"	"	"				

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 73° F H-59% Transparency Conditions Very hazy 2TG

Focus

Dome Temp. 63° H=76%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01 10E	+33 21	1"-2"	7.52	B0	17-17-17	Bin Search	600/275	Omit 4250-4401 blew fuse	SL. STR
02 30W	+38 55	<1"	9.15	B	17-17-17	"	800/265	*Extremely good seeing	FINE
13 20W	+58 07	"	2.61	B3	17-17-17	"	800/260		FINE
									—
01 07E	24 21	2"	3.8	B9	25-25	std vel	40/17	Hd drawn	FINE
Photographic region			Hd-Bln						
					Fe 1m	C bottom - B tops (error)		2nd orders shown at red end (3770 gap) some missing 2nd orders at other end	
					"				
					Ne 30s	forget to take out neutral filter - nothing on		Somehow tilted the grating counterclockwise by turning the top screw two whole turns	
					Ne m 2				
		no filter.			Ne 30s	no filter			
		"			m 2m				
					Fe 1m	with filter.			

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≈ Aug 21-22

Date Aug 25-26 1972 Fri. Sat. **Observer** GH-RI **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36458 F1	~~focus test~~			G-43	IIaO B⁺	13	75°F			A	
~~36459~~	IC 4756-7	18h 37.6	+05° 22	"				20:40		B	
36459	IC 4756-7	18h 37.6	+05° 22	"	"	13/.3		21:14	21:36	C	
36460	IC 4756-1	"	"	"	"	"		21:45	22:07	B	
36461	~~IC 4756-5~~	"	"	"	"	"		22.12		C	
36461	M 11 Psc	00 09.8	+08°16	G-12	IIaO B	13/.3		01:58	02:20	A	
36462	"	"	"	"	"	"		01:28	02:01	B	
36462 T1	calibration	step wedge									
36463	M 11 Psc	00 09.8	+08°16	G-12	IIaO B	13/.3		02:03	02:33	C	
36464	"	"	"	"	"	"		02:34	03:10	A	
36464 F1	focus test	on 2A		"	"	13	69°F			B	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 65°F 76%

Focus .....

Dome Temp. 60°F 88°F

Transparency Conditions very hazy ~~Cirrus~~ high haze

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Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A						9sec	with G-12 filter			
	~~B~~				7.43		3-	G 11 - cluster			
	C	01h02m W	+04°58'	3-4	6.53	A5	3-3-3	G11-cluster	400/50		
	B	01h28m W	-05°18'		7.15		3-3-3	"	400/50		
	C				7.81		3-	"	~~Foc/15~~	~~Good 5'~~	
	A	00h47m E	+08° 45		6.1	A9s	17-17-17		200/65		
	B	00h12m E	+08° 45		"	"	17-17-17		200/65		
		00h19m W	+08°45		6.1	A9s	17-17-17		200/65	thin cirrus from S.W.	
		00h56m W	"		"	"	17-17-17		200/65		
							8-8 with filter			cloud up because of clouds and done trying with	

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* baked Aug 21/22
** baked Aug 18/19

Date 1972 August 28/29 Mon/Tu **Observer** Bl~-Ri **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36465	HD161096	17 38.5	+04 37	G-12	IIa-O*	13/1.5		19:32	19:35	A
36466	HD180163	19 10.4	+38 58	"	"	"		19:44	19:49	B
36467	Cyg X-1 HDE226868	19 [illegible].6	+34 56	"	"	20/1.3		19:52	00:20	C
36468	UU Psc	00 09.8	+8 16	"	"	13/1.3		00:25	01:00	B
36469	"	"	"	"	"	"		01:02	01:27	A
3646971	calibration	step	wedge		IIaO*			#'s 36465 – 36469		
36470	UU Psc	00 09.8	+08°16	G-12	IIaO*	13/1.3		01:29	02:03	B
36471	"	"	"	"	"	"		02:04	03:15	C
36472	HD24760	03 51.1	+39 43	"	"	13/1.5		03:21	03:25	A
36473	HD24912	03 52.5	+35°30	"	"	"		03:30	03:38	B
36474	HD26961	04 10.7	+50°03	"	"	13/1.9		03:43	03:59	C
36475	HD14951	02 19.3	+10 09	"	IIaO*	13/1.5		04:04	04:26	A
36476	HD21364	03 21.8	+9 23	"	"	"		04:29	04:34	B
3647671	calibration	step	wedge		IIaO**	for plates		36475 +	36476	

Dome Temp.
Focus
Dome Temp.

Hour Angle End

260

Dome Temp. 64°F H=68%

Transparency Conditions Excellent - increasing haze

Focus .....

Dome Temp. 55°F 74%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
+00m10s	+04 38	2-3	3.93	K2III	25-25	Std. Veh	40/27		FINE
01:12E	+39°07	"	4.3	B5V	25-25	B Std Veh	40/18		SL STRONG
00m35s	+35°10.	"	9.74	B0I6	17-17-17	Sp. Bin-Blm	800/300		FINE
01m01E	+08°43'	3-4	6.15	A9s	17-17-17	"	400/130		O. SL. STR
00m35E	"	"	"	"	17-17-17	"	400/130		O. SL. STR
					180 deg.				
0001W	+08°43'	4	6.15	A9s	17-17-17	Sp. Bin-Blm	400/130		FINE
01m16W	"	4-5	"	"	17-17-17	"	400/130		FINE
02m17E	+39°58'	"	2.71	B0.5V	17-17-17	"	40/17		SL. STR
00m06E	+35° 45'	"	4.03	07	17-17-17	"	40/24		. SL. STR
02 05 E	+50° 27	"	4.57	A2	17-17-17	"	40/33		d. SL. STR
00m16W	+10° 32'		5.38	B6	25-25	"	80/36	J.	SL. STR
00m39E	+09° 40		3.66	B5p	25-25	"	40/		SL. STR

261 OPEN HOUSE TONIGHT
IAU SYMPOSIUM
WORKING ON M33

× Baked Aug 29

Done Temp.
Focus
Done Temp.

Date 1972 Aug 29/30 1972 **Observer** Bln-R **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36477	HD 189178	19 53.7	+40°06	G-12	IIaO B*	13/.5		20:33	20:48	A	0h53E
36478	HD 206874	21 39 9	+28° 20'	G-12	IIaO B*	13/.3		20:53	21:37	B	1h36
36479	HD 213534	22 26.9	+29 02	"	"	13/.5		21:41	22:12	C	0h03E
36480	" " (Psc) HD 1061	00 09.8	+08° 16'	"	"	13/.3		22:15	22:45	A	0h32E
36481	"	"	"	"	"	"		22:46	23:16	B	0h34E
36482	"	"	"	"	"	"		23:19	23:47	C	0h32E
36483	"	"	"	"	"	"		23:48	00:11	A	0h34E
36484	"	"	"	"	"	"		00:13	00:33	B	0h34E
36485	"	"	"	"	"	"		00:35	00:53	C	0h34E
36486	"	"	"	"	"	"	62°F	00:54	01:11	A	0h31E
36486.71	calibration	strips	overlaps		IIaO B*	for	plates	36477-36486			
36487	" Psc HD 1061	00 09.8	+08° 16'	G-12	IIaO B*	13/.3		01:12	01:42	B	0h32E
36488	"	"	"	"	"	"		01:43	02:05	C	0h31E
36489	"	"	"	"	"	"		02:06	02:25	A	0h31E
36490	"	"	"	"	"	"		02:26	02:43	B	0h29E
36491	"	"	"	"	"	"		02:44	03:07	C	0h31W

Dome Temp. 60°F 68%

Focus .....

Dome Temp. .....

Transparency Conditions ..... good

bank of thin cirrus from N. 01:20

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0 48	A	0h53E	+40° 20'		5.41	B5Vp?	17-17-17	Sp. Bw - Bln	80/34	BROKEN ½" missing	FINE
1 37	B	1h50E	+28° 42'	4"-6"	6.90	A9+A9	17-17-17	"	400/121		FINE
2 12	C	02h03E	+29° 28'		6.28	A5	17-17-17	"	400/180		FINE
2 45	A	03h14E	+08° 44'		6.15	A9s	17-17-17	"	400/120		FINE
3 10	B	02h40E	"		"	"	17-17-17	"	400/120		FINE
3 37	C	02h11E	"		"	"	17-17-17	"	400/120		FINE
1	A	01h47E	"		"	"	17-17-17	"	400/120		FINE
33	B	01h24E	"		"	"	17-17-17	"	400/120		FINE
53	C	01h04E	"		"	"	17-17-17	"	400/120		FINE
11	A	00h45E	"		"	"	17-17-17	"	400/120		FINE
							180 sec.				
42	B	00h15E	+08°44'		6.15	A9s	17-17-17	"	400/120		FINE
05	C	00h07W	"		"	"	17-17-17	"	400/120		FINE
35	A	00h28W	"		"	"	17-17-17	"	400/120		FINE
43	B	00h47W	"		"	"	17-17-17	"	400/120		FINE
05	C	01h11W	"		"	"	17-17-17	"	400/120		FINE

283 PG 2

Baked Aug 29

Date 1972 Aug 29/30 Tue/Wed **Observer** Bin-R. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36492	HD 14951	00 09.8	+8 16	G-12	IIa-O B[x]	13/.3		03:08	03:40	A	
36493	HD 14951	02 19.17	+10° 09	"	"	13/.5		03:46	04:03	B	
36493T1	calibration	skyp	wedge		IIa-O B[w]	4p	plate	36488 - 36493			
36493F1	focus test	out out/in in		G-12	IIa-O	13	64°F			B	

Dome Temp. .....

Focus .....

Dome Temp. 56° H=82%

Transparency Conditions Clouds increasing last 2 hours

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01443W	+05°44'		6.15	A95	17-17-17	Sp Bw-B1a	40/120		FINE
00404E	+10° 33		5.38	B6	17-17-17	"	80/36	Exposure lag & skipping counts	FINE
					180-sec.				
					8-8	no filter			

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* Added Aug 30

Wed-Thurs

Date 1972 AUGUST 30/31 **Observer** Bln-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36494	HD 161096	$17^h\ 38^m.5$	$+4°\ 37'$	6-12	IIa-O b*	13/1.5		19:28	19:30	A	
36495	HD 180163	19 10.4	+38 58	"	"	"		19:35	19:37	B	
36496	HD 189178	19 53.8	+40 06	"	"	"		19:41	19:47	C	
36497	HD 167771	18 11.6	-18 30	"	"	"	71°F	19 57	20:53	A	
36498	HD 213534	22 36.9	+29 02	"	"	"		20:58	21:22	B	
36499	HD 206267	21 39.9	+28 20	"	"	13/.3		21:26	21:50	C	
36500	HD 187459	19 45.0	+33 11	"	"	13/.5		21:53	22:15	A	
36500 T1	Col step	wedge	180 sec		"						
36501	HD 190429B	19 59.8	+35 45	6 12	"	13/.5		22:20	23:16	B	
36502	HD 190429A	"	"	"	"	"		23:16	23:40	C	
36503	44 Pic	00 09.8	+8 16	"	"	13/.3		23 45	00:01	A	
36504	"	"	"	"	"	"		00 06	00:22	B	
36505	"	"	"	"	"	"		00 25	00:39	C	
36506	"	"	"	"	"	"		00 42	00 56	A	
36507	"	"	"	"	"	"		00 57	01 11	B	
36508	"	"	"	"	"	"	67°F	01 13	01 29	C	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 70° F H= 46 %

Transparency Conditions ..... Excellent!! .....

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 07 W	+04° 39'	2	3.93	K2III	50	Std. Vel.	40/24		FINE
01 16 E	+39 09	1-2	4.3	B5V	25-25	B Std. Vel.	40/15		(GUIDING) SL. STR (SL. GUIDING)
01 50 E	+40 21	"	5.35	B5Vp?	25-25	Sp. B's - Blu	40/17	PH c has loose d.p	FINE
00 55 W	-18 24	2-3"	6.64	O7III	17-17-17	"	400/180	maybe fog! quite distinct	FINE
02 49 E	+29 27	"	6.28	A5	17-17-17	"	200/90		(GUIDING) FINE
01 34 E	+28 43	1-2"	6.90	A9+A9	17-17-17	"	400/180		(GUIDING) FINE
00 48 W	+33 26	"	6.66	B0.5Ib	17-17-12	"	400/195		STRONG FINE
									—
01 33 W	+36 01	1-2"	6.69	Oe	17-17-17	"	400/170	seam; fth. than 6.69 Very close visual dbl.	FINE
01 59 W	"	"	6.29	Oe	17-17-17	"	400/165		(GUIDING) FINE
01 53 E	+8 43	2	6.15	A9s	17-17-17	"	400/130		FINE
	"		"	"	17-17-17	"	400/125		FINE
01 14 E	"		"	"	17-17-17	"	400/130		FINE
00 57 E	"	1-2	"	"	17-17-17	"	400/130		FINE
	"	1-2	"	"	17-17-17	"	400/130		FINE
00 25 E	"	"	"	"	17-17-17	"	400/130		FINE

25th Pg #2

* baked Aug 30

Date ..... **Observer** ..... **Julian Day** .....

Dome Temp. .....
Focus .....
Dome Temp. .....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36509	UU Psc	00 09.7	+8 16	G-12	IIa-0	13/1.3		01 30	01 46	A	
36509T1	Calstd region 180 sec				IIa-0						
36509T2	"	"			IIa-0						
36510	UU Psc	00 09.8	+8 16	G-12	IIa-0	13/1.3		01 48	02 06	B	
36511	"	"	"	"	"	"		02 06	02 30	C	
36512	HD 215154	23 04.0	+24 29	"	IIa-0	13/1.5		02 32	03 14	A	
36513	HD 35363	04 23.3	+5 57	"	"	9/1.3		03 18	04 18	B	
36514	HD 37519	05 31.1	+31 18	"	"	13/1.5		04 22	04 38	A	
36515	HD 14951	02 19.3	+10 09	"	"	"		04 41	04 53	B	
36516	HD 21364	03 21.8	+9 23	"	"	"		04 54	05 04	C	
36517	HD 24912	03 53.5	+35 30	"	"	"		05 01	05 03	A	

Dome Temp. .....

Focus .....

Dome Temp. 55° H=91% Anson; we need (Many more) plates at ie 5 night Algol run

Transparency Conditions .....

Coding Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1 46	A	00 07E			6.15	A9s	17-17	Sp. Bin-Bln	400/130		FINE
											—
											—
2 05	B	00 12W		1-2'	6.15	A9s	17-17-17	Sp.	400/140		FINE
2 30	C			"	"	"	17-17-17	"	400/140	(Got 100 from comp star)	FINE
3 -	A	02 29W	-24 36	.	7.01	A0	17-17-17	"	400/180	counts stars	FINE
3 -	B	01 49E	-16 10	"	7.14	F8	17-17-17	"	450/230		(GUIDING) FINE
4 31	A	02 35E	+31 24	2	6.03	B7II	17-17-17	"	200/70		FINE
4 50	B	00 50W	+10 32	2-4"	5.38	B6	17-17-17	"	70/38	in 2nd box	U.SL.STR
5 51	C	00 07E	+9 42	1"	3.66	B8p	25-25	"	70/16		FINE
5 -	A	00 33E	+35 46	1"	4.04	O7	25-25	"	40/16		STRONG

16 UNEXPOSED PLATES MIXED IN WITH PLATES FOR DEVELOPMENT ?!

AUG 30/31

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* baked Aug 30/31

Date Aug 31/Sept 1 Thurs-Fri **Observer** GH - Tm **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36518	67 Oph	17 55·6	+2 56	G43	IIaO-b*	13/.5	74°F	19 46	19 48	A	
36519	IC4756-7	18 34·6	+05 22	"	"	13/.3		20 16	22:02	B	
36520	IC4756-6	"	"	"	"	13/.3		22:05	23:01	C	
36520T1	Cal step	wedge	180 sec		"						

Dome Temp. 70° H=73% Transparency Conditions Very hazy

Focus

Dome Temp. 65 H 93% fog

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9 42	A	00 12W	+3 01	2-3"	9.0	B5	15	std vel	40/4-5		SC. STR
	B	1 45W	+5 18	2-3	9.43	(1C)	4-4-4	6H cl.	800/140		WEAK
	C	2 50W	+5 20	2"	7.:	(E)	4-4-4	5H CO	40/60		FINE
										Sorry about last plates tonight. I don't know what's up w/ plates in other box I labelled. Ty	—
								PLATES ARE ALL ACCOUNTED FOR, NOW. ←			
					RE PLATES FOR WEEKEND: 3 OF 4 EXPOSED BOXES ARE FULL OF UNEXP PLATES; 1 BOX (END OF OLD PLATE BATCH) PARTIALLY FULL; NEW PLATE BATCH SUITABLY LABELLED - DIFFERENT EMULSION NUMBERS WILL REQUIRE SEPARATE CALIBRATIONS (OLD: 240 C102; NEW: 240CF2)			

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Date Sept 1/2 Fri-Sat **Observer** Bln-Tm **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36521	Algol	03.01.7	40 34	G12	IIaO	9/.9	74°F	23:20	23:48	A
36521 T1	Cal step	wedge	180sec		"					
36522	Algol	3 01 7	40 34	G12	"	9/.9		23:50	00:36	B
36523	"	"	"	"	"	"		01:47		A

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 68° H=90%

Focus

Dome Temp. 60 H=92%

Transparency Conditions Hazy & Foggy Very Poor

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
4h 51 E	40 49	5-6"	2.2-3.47	B8V	25-25	Flare *	80/70	some cloud	WEAK
									—
5h 02 E	〃	〃	〃	〃	25-25	〃	80/70	SL A	WEAK
—			〃	〃	25	〃	80/	Cloud No Good	

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* baked Aug 30/31

Date Sept 3/4 Sun-Mon **Observer** GH-Tn/Wi-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36523	IC 4756-1	18h 34.6	+05° 22	G-43	IIaO-b*	13/1.3		19:47	20:09	B
36524	IC 4756-2	"	"	"	"	"		20:16	23:12	A
36525	HD 212994	22h 22.8	+04°	"	"	"	60°F	23:18	23:42	C
36526	HD 206778 ε Peg	21h 39.3m	+09° 25'	G12	"	13/1.3		00:30	00 36	A
36526 II	Cal step wedge		180 sec		"					
36527	2 Tau	03 21.8	+9 23	G12	"	13/1.5		02:10	02 26	B
36528	30 Tau	03 42.8	+10 50	"	"	"		02:31	02 49	C
36529	46 Per	03 52.5	+35 30	"	"	"		02:54	02:58	A
36530	"	"	"	"	"	13/1.7		03:00	03:06	B
36531	HD 28763	04 23.3	15 57	"	"	9/1.5		03:12	04:44	C
36532	45 Per	03 51.1	39 43	"	"	"		04:46	04:50	A

Dome Temp. 57° F. 77/0

Focus .....

Dome Temp. 50° 81 3/3

Transparency Conditions ..... partly cloudy clear by 2:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0 06 W	+0° 18	2-3	7.15	F0 Ib	4-4-4	6 Hd cl.	200/35		FINE
3 11 W	+5 18	2"-4"	9.43	K	4-4-4	"	800/120	[illegible]	SL. UNK
0 08 E	+4 38	3"-7"	5.9	K0	4-4-4	std vel	200/35		FINE
1 30 W	+9 50	2-3	3.98	K2 Ib	25-25	"	40/28	cloudy [illegible]	FINE
								[illegible]	
2 24 E	+9 43	2-3	3.74	F8 p	17-17-17	spl. [illegible]	200/85	2nd pr	SL. STR
2 22 E	+11 09	2"	4.9	B9	17-17-17	B std vel	200/80		SL. STR
2 23 E	+35 48	2-3"	4.04	07	25-25	spl [illegible]	40/15	[illegible]	SL. STR
2 16 E	"	"	"	"	25-25	"	40/21	"	STRONG
1 07 E	+16 12	2-4	7.14	F8	17-17-17	"	400/230	[illegible]	FINE
0 30 E	+40° 00		2.71	K0-1	25-25	"	40/16		STRONG

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* Dated Aug 30/31

Date Sept 4/5 Mon-Tues **Observer** Jn-W. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36533	B Oph	17 38.5	+4 37	G12	IIaO-b*	13/.5	62°F	19:31	19:35	A
36534	HD167771	18 11.6	-18 30	"	"	"		19:44	20:44	B
36535	HDE235679	21 55.0	54 01	"	"	18/.3		20:58	23:30	C
36536	HD213534	22 26.9	29°02	"	IIaO	13/.5	59°F	00:06	00:36	B
36536T1	Colstep wedge 180 sec				IIaO-b*					
36536T2	" "	"	"		IIaO					
36537	HD 218154	23 00.6	+24 07	G17	"	13/.5		00:43	01:37	C
36538	24 Ari	02 19.3	+10 09	"	"	"		01:43	02:05	A
36539	2 Tau	03 21.8	+9 23	"	"	"		02:07	02.15	B
36540	46 Per	03 52.5	+35 30	"	"	13/.7		02:20	02'24	A
36541	HD26961 6 Per	04 10.7	+50°3'	"	"	9/.7		02:36	02:50	B
36542	1 Cam	04 24.1	53 42	"	"	9/.5		02:55	03 39	A
36543	HD28363	04 23.3	+15 57	"	IIaO-b*	"		03:45	05 03	C
36543F	Focus Test			"	IIaO	9	55°			B

Dome Temp. 58° H-60%

Focus

Dome Temp. 48° H-70%

Transparency Conditions Excellent

checked out faint stars in Cyg X-3 area. All normal brightness at 0h

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:35	A	0033W	+4 38	2"	3.93	K2III	25-25	std vel	40/28		FINE
2:44	A	0107W	-18 24	"	6.64	O7	17-17-17	sp lin - Elm	400/180	2nd	FINE
3:39	C	0912W	+54 21	"	9.21	B2	17-17-17	"	800/260	2nd	FINE
4:36	B	0047W	+29°26	"	6.28	A5	17-17-17	"	400/180	2nd	FINE
1:11	C	0113W	+24 34	1"-3"	7.01	A0	17-17-17	sp lin - Elm	400/180	3rd	(GUIDING) FINE
2:05	A	0138E	+10 31	2-3"	5.38	B6	17-17-17	"	40/18	3rd	FINE
3:5	B	0230E	+9 42	"	3.66	B8p	25-25	"	40/19	2nd	SL. STR
2:14	A	0252E	+35°46	"	4.02	O7	25-25	"	40/25	2nd	(GUIDING) STRONG
2:59	B	0246E	+50 18	"	4.57	A2	25-25	"	40/25	3rd	(GUIDING) FINE
3:39	A	0210E	53 54	2"	5.40	B0III	17-17-17	"	200/100	3rd South ? brighter Comp	FINE
4:03	C	0043E	16 09	2"-3"	7.14	F8	17-17-17	"	400/203	2nd	FINE
				[illegible]			8/8	[illegible]			(GOOD)

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+ boted Sept 4-5

Date Sept 6-7 Wed-Thurs **Observer** In. Ch. / Wi-Tan **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
36544	HD197989	20 42.2	+3336	G12	IIa-O*	13/1.5	66°	21:30 2	39 21:46	A
36545	"	"	"	"	"	"	"	21 50 3	03 22:16	B
36546	HD213389	22 25.9	+48 51	"	"	"		22:22	00 22	C
36546T	Cal step	wedge	180sec	"	"					
36547	UU Psc	0 09.8	+8 16	G12	"	13/1.3		00:27	01:01	A
36548	HD222368	23 34.8	+5 05	"	"	13/1.5	65°	01:05	01:29	B

Dome Temp. 6
Focus
Dome Temp. 5

Hour Angle End

Dome Temp. 60° H=84%

Transparency Conditions Cloudy - thin

Focus

Dome Temp. 57° H=95% Fog

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21 46	12E	33 56	2-3	m_v = 2.95	K0 III	17-17-17	sp std	200/300	+ cloud	SL. STR
22 16	18W	"	2"	"	"	17-17-17	"	200/500	+	VERY STRONG
22 52	40W	49 16	"	7.62	K1 III	17-17-17	Ca I Em	200/620	cloud	FINE
										—
0 11	25E	+8 42	1"-3"	6.15	A9$_5$	17-17-17	sp Bin-Bin	200/67		FINE
0 24	40W		2"-3"	4.64	F7 V	17-17-17	std vel	200/130	Too much Fog cloud	FINE

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* Baked Sept 4-5

Date Sept 8-9 Fri-Sat **Observer** Th-GH/Th-WS **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36549 T1	Cal step	wedge	180sec		IIaO*					
36549	IC 4756-7	18 34.6	+5 22	G43	"	13/3	68°F	19:34	23:34	A
36550	HD187691	19h40m2	+10°10	"	"	"	63°	23:40	2[illegible]:6	B
36551	i Psc	23 34.8	+5 05	G12	"	13/5	"	00:15	00:35	C
36552	μ¹ Psc	00 09.8	+8 16	"	"	13/3	"	00:39	01:37	A
36553	μ¹ Psc	"	"	"	"	"	"	01:38	02:19	B
36554	"	"	"	"	"	"	"	02:20	03 06	C
36555	"	"	"	"	"	"		03:10	03:48	A
36556	HD23793	03 42.8	+10 50	"	"	13/5		03:52	04:14	C
36557	2 Tau	03 21.8	+9°23'	"	"	"	60°	04:18	04:22	B

Dome Temp. 5

Focus

Dome Temp. 3

Hour Angle End

Dome Temp. 63° H=76%

Focus

Dome Temp. 54° H=95%

Transparency Conditions Clear - some haze high wind

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3'54W	+5 18	3-6"	9.43	K	3-3-7	GH cluster	800/131		V.SL. WK
1 02W	+10 26	"	5.8	F8	3-3-3	std vel	200/30		FINE
0:07E	+5 35	3-4"	4.64	F7V	25-25	"	200/130		FINE
0:19W	+8 45	"	6.15	A9s	17-17-17	sp Pen-Bln	400/135		FINE
1:00W	"	"	"	"	17-17-17	"	400/130		FINE
1'48W	"	2-3"	"	"	17-17-17	"	400/130		V.SL.WK
2 31W	"	"	"	"	17-17-17	"	400/130		V.SL. WK
0 36E	+11 09	"	4.9	B4	17-17-17	B-std vel	200/90		SL.STR
0 06E	+9°42'	"	3.66	B8p	25-25	sp Bin-Bln	40/16		STRONG
								Close! - Too wet again	

281 2 Visitor tours 1st & 4th * bad sat Sept 1-5

Date Sept 9-10 Sat-Sun **Observer** Mc H-Ty **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36558	HD 201433	21 04.4	+29 48	G12	IIaO	13/1.5		21:32	21:52	A
36559	" "	"	"	"	IIIaJ	"	60°F	21 54	22:16	B
36560	HD 211153	22 10.1	22 02	"	IIaO-b*	13/1.5		22 20	23 36	C
36561	HD 201433	21 04.4	+29 48	"	EaO	13/0.5		23 38	00 02	B
36562	"	"	"	"	"	"		00 03	00 25	A
36563	HD 223582	23 45.6	+53 39	"	EaOL*	"	57°	00 29	02 05	C
36563T1	Calstep wedge		180sec		"					
T2	"		"		IIaO					
36564	HD 201433	21 04.4	+29 48	G12	EaO	13/0.5		02 10	02 32	A
36565	"	"	"	"	"	"		02 33	02 55	B
36566	HD 11049	01 43.4	+7 12	"	IIaO-b*	13/1.4	55°F	03 00	04 34	C
36567	HD 14951	02 19.3	10 09	"	"	13/1.5		04 37	04 47	A
36568	HD 37519	05 34.1	31 18	"	"	"		04 49	05 03	B
36569	HD 29139	04 30.2	16 18	"	"	"		05 07	0509	C

Dome Temp. 53° H=73%

Transparency Conditions Excellent

Focus .....

Dome Temp. 45° 90%

Ending Time EST	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
21 52	A	0 16E	+30 08	2"-3"	5.6-5.9	B9V	17-35	V35 Cyg	200/100		FINE
2	E	0 08W	"	1"-3"	"	"	17-17-17	"	"		FINE
2 16	C	00 22W	+22 26	2"-3"	7.69	G5 III	17-17-17	V1 [illegible]	400/225	[illegible]	FINE
1 52	B	01 54W	+30 09	"	5.6-5.8	B9I	17-35	V29-1 Cyg	200/100		SL. STR
2	A	02 17W	"	2"	"	"	30-25	"	200/100		SL. STR
1 5	C	01 15N	+54 06	"	7.64	F5V	17-17-17	V1 [illegible]	400/225		SL. STR
2 20	A	04 25W	+30 12	3"-4"	5.6-5.8	B9II	26-26	29 Cyg	200/100		FINE
2 55	E	04 47W	"	"	"	"	26-26	"	"		FINE
4 34	C	01 47W	+7 38	2-3	≈8	K1 III	17-17-17	V1 [illegible]	400/240		FINE
1 17	A	01 23W	+10 34	"	5.38	B6	17-35	29 B[illegible]	200/90		FINE
5 03	B	01 34E	31 24	"	6.03	B7V	17-17-17	"	200/90	} in plate box #3	(SLIGHTLY) FINE
1 09	C	00 25E	—	"	2.39	K5 III	25-25	std vel	40/28	}	FINE

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4 baked Sept 9-10

Date Sept 10-11 Sun - Mon **Observer** McG-Th **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36570F	Focus Test			G12	IIaO·b		63°			B
36570	HD 201433	21 04.4	+29 48	"	IIaO-b	13/1.5	"	19 :49	20 05	A
36571	"	"	"	"	"	"		20 05	20 17	B
36572	HD176668	18 56.3	+62 16	"	"	13/0.5	63°F	20 22	21 22	A
36573	HD201433	21 04.4	+29 48	"	"	"		21 28	22 06	B
36573T	Cal step	wedge	180sec		"					
	~~HD201433~~	~~21 04.4~~	~~+29 48~~	~~G12~~	"	~~13/1.5~~		22 09		A

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 60° H=42%

Focus .....

Dome Temp. 54° H=60%

Transparency Conditions ..... cloudy - excellent seeing

Ending Time E.S.T	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
			in in / out out				8/8	no filter			GOOD
0035	A	0201E	+30 08	1"-2"	5.6-5.8	B9 V	26-26	V 389 Cyg	200/85		FINE
0147	B	0147E	"	"	"	"	26-26	"	200/85		SL. STR
0122	A	0128W	+62 23	2"	7.4	G8 III	17-17-17	Hd Vis Bin	400/235		FINE
0206		0004W	+30 08	2"-3"	5.6-5.8	B9 V	17-35	V 389 Cyg	200/95	cloud	(GUIDING) FINE
	A	~~+30 08~~	~~1-2"~~	~~5.6-5.8~~	~~B9 V~~		~~V 389 Cyg~~	~~400~~		cloud gave up	

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* bot ad Sept 7-10

Date Sept 11-12 Mon-Tues **Observer** L.R.-T.n **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36574	HDE 235679	21 55.0	34° 01	G-12	I a-b*	12/5	68°F	1:00	2:4	A
36574T1	A ca' stop edge				11			over develop		
36574 F	Prism Test			G12	IIaO B	13				A
36574 T1	Test of Comp. sp. for	Vis region		G16	IIaF	13				A
? 36574 T2	" "	" "	" "		" "	"				B
36574 T4	"	"	"							A

Dome Temp. 63° H=80%

Focus

Dome Temp. 60 90%

Transparency Conditions very hazy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3:14 W	+54 24	1-2"	9.21	32	17/30	Im Sun	900/60	cloud to over develop pure	VF?* UK
with	36574					15 m @ 68°± in m WP-2			
Sept 12/72. Tilted the I-12 grating counterclockwise by loosening by 2 whole turns the top screw. If the G12 spectrum is still reasonably well centred we will leave it like this so that for the G16 grating we will not need to change the tilt. (See Aug 25/72)									
in in/	out out	No filter			8/8			Position of spectrum is OK	
A		No filter			Fe 10s He 2m				
B		"	"		He 2m Fe 3s				
4		"	"		Fe 3s				

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* Baked 9-10 Sept.
** " 14 "

Date SEPT 14-15 Thurs-Fri **Observer** WEST - Ri **Julian Day** 2,441,575.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36575	HD 187691	19h46m2	+10°10'	G-12	IIaO B✓	13/.5	65°F	19h13m	19:46	A
36576	ADS 14893	21h 16.5	+09° 55'	G-12	IIaO B	13/.5		19:55	21:44	B
36577	ADS 14893	21h 16.5	+09°55'	G-12	IIaO B	13/.5		21:45	23:19	C
36578	HD 222368	23h 34m9	+05°05'	G-12	IIaO B	13/.5		23:25	23:35	A
36579	ADS 14893	21h 16m5	+09°55'	G-12	IIaO B	13/.5		23:45	01:13	B
36579+1	calibration step wedge				IIaO B✓	for plates		36575-	36581	
36580	HD 222368	23h 34.9	+05° 05	G-12	IIaO B✓	13/.5		01:19	01:33	C
36581	BD+37°943	05h 53.8	+27°16'	G-12	IIaO B✓	13/.5		01:52	04:02	A
36581+1	calibration step wedge				IIaO B✓✓	for	plate	36582-36585		
36582	1 GEm	05h 58.0	+23°16'	G-12	IIaO B✓✓	13/.5	54°F	04:10	04:25	B
36583	1 GEm	05 58.0	+23° 16'	G-12	IIaO B✓✓	13/.5		04:26	04:41	A
36584	β GEm	07 39.3	+28° 07	G-12	IIaO B✓✓	13/.5		04:47	04:51	A
36585	β Gem	07 393	+28° 07	G-12	IIaO B✓✓	13/.5		04:54	04:56	C
36585F1	focus test			G-12	IIaO B✓✓	13	53°F			B

Dome Temp. 54°F H 57%

Transparency Conditions good seeing poor

Focus .....

Dome Temp. 45°F H 73%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 44 E	+10°26	4'	5.2	dF8	17-17-17	Ward Proj.	200/130		V. SC. WK
00 18 E	+10° 18'		6.75	F7V	17-17-17	"	400/260		FINE
01 18 W	+10° 18'		6.75	F7V	17-17-17	"	400/260		SC. WK
00 38 E	+05° 33'		4.3	F8V	17-17-17	"	200/130		FINE
03 13 W	+10° 18'		6.75	F7V	17-17-17	"	400/260		SC. WK
					180 sec.				
01 15 W	+05° 33'		4.3	F8V	17-17-17	"	200/130		FINE
02 35 W	+27°20	2-3	6.8	kOIII	17-17-17	"	400/320		WEAK
					180 sec.				
02 18 E	+23°20'	3	4.5	kO	17-17-17	"	80/64		V. SC. WK
02 03 E	+23°20'		4.5	kO	17-17-17	"	80/64		FINE
03 34 E	+28°09		1.2	kOIII	26-26		40/32		
03 28 E	+28°09		1.2	kOIII	26-26		40/32		FINE
					8-8 no filter			CENTRE CAMP ONLY	

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Baked Sept 14

Date SEPT 15-16 Fri-Sat **Observer** WEST-Ri **Julian Day** 2,441,576.5-576.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36586	HD 187691	19h 46.m2	+10° 10'	G-12	IIaOB	13/.5	64°F	19:05	19:20	A
36587	ADS 14893	21h 16.5	+09° 55	G-12	IIaOB	13/.5		19h 38m	21:23	B
36588	ADS 14893	21h 16.5	+09° 55	G-D	IIaOB	13/.5		21:25	22:59	C
36589	HD222368	23 34.9	+05 05	G-12	IIaOB	13/.5		23:06	23:18	A
36590	ADS14893	21 16.5	+09 55	G-12	IIaOB	13/.5		23:24	01:25?	B
36591	HD222368	23 34.9	+05 05	G-12	IIaOB	13/.5		01:24?	01 38	C
36592	uu Psc	00 09.5	+06° 16'	G-12	IIaOB	13/.3	60°F	01.43	02 13	A
36592T1	calibration strip wedge				IIaOB	for plates		36586 -	36596	
36593	1 GEM	05 58.0	+23° 16	G-12	IIaOB	13/.5		02:37	03:16	B
36594	1 GEM	05 58.0	+23°16	G-12	IIaOB	13/.5		03:20	03:37	C
36595	BD+27°943	05 53.8	+27° 16	G-12	IIaOB	13/.5		03:44	05 11	A
36596	β GEM	07 39.3	+28° 02	G-12	IIaOB	13/.5		05:17	05:18	B

Dome Temp. 54°F 74%

Focus .....

Dome Temp. 50°F 88°F

Transparency Conditions clear with clouds N.W. and hyland hazy toward morning

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0/402 E	+10° 25'	2	5.2	dF8	17-17-17	West Phos	240/180	some clouds	
00"35 E	+10° 19'		6.7	F7 V	17-17-17	"	400/260	" "	
01"02 W	+10° 19'	3	6.7	F7 V	17-17-17	"	400/260	cleared up at 21:00	
00 55 E	+05° 34'		4.3	F8 V	17-17-17	"	200/130		
03"23 W	+10° 18'		6.7	F7 V	17-17-17	"	400/260		
01"23 W	+05° 34'		4.3	F8 V	17-17-17	"	200/130		
01"23 W	+08 043	3	6.15	M9s	17-17-17	B&n-Spot-Bi	400/180		
					180 sec.				
03"21 E	+23° 20'		4.5	kO	17-17-17	West Phos	240/160	clouds	
03"22 E	+23° 20'		4.5	kO	17-17-17	"	240/160		
01"24 E	+27° 21		6.8	kO III	17-17-17	"	400/320		
03"00 E	+26° 10		1.2	kO III	26-26	"	40/32		

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Baked Sept. 14

Date Sept 16-17 Observer Hu-Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36597	MD 213388	22 25.9	51 54	G12	IIaOB	13/15	68°	22 46	23:10	A

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 59°F 90%

Transparency Conditions hazy

Focus .....

Dome Temp. .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
23:0	A	20" 10W	+52° 20'	4"	7.38	G8III	17-34	Hd Vis Bin	8m/ 37	clouds, Over develop plate	VERY WK

293

< Baked Sept 14

Date Sept 17-18 1972 Sa Mn. Observer Mc L - R. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36598	HD 201433	21 04.4	+29° 48'	G-12	IIa O B^x	13/.5	74°F	19:05	19:25	A	
36599	HD 192182	20 08.5	+38° 09	G-12	IIa O B^x	13/.4		19.27	21 53	B	
36599T1	Calibration	step wedge			IIa-O B^x		for plates 36598				
36599T2	calibration	step wedge			IIa O B		for plate 36597 and 36599				

Dome Temp.
Focus
Dome Temp.

Dome Temp. 60°F 59%

Focus .....

Dome Temp. .....

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02h12 E	+30°40′	~6″	5.6 - 5.7	A0	26-26		20/90		WK
01h12 W	+38°25′		7.97	kOIII	A-34	Hd Vis Bw	90/263	check Doppler for the South one and with plane	V. WK
					180 sec				
					180 sec.			quit at ~0100	

295

~ Baked Sept 16

Ri

Date Tues Sep 19-20 1972 **Observer** Hd - Hn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36600.	β Lyr	18 49.0 1970	33 20	G-16	IIaF	13/4		19 10	19 16	A	
36601	"	"	"	"	"	"		19 17	19 29	B	
36602	γ Aql	19 44.8 1970	+10 32	"	"	"		19 41	19 57	C	
36603	"	"	"	"	"	"		19 59	20 05		
36604	γ Cyg	20 21.1 1970	+40 09	"	"	"	65F	20 08	20 10	B	
36605	"	"	"	"	"	"		20 12	20 18	C	
36606	HD 196929	20 35.3	+03° 05'	G-12	IIa 08"	13/.5		20 32	22 44	A	
36607	HD 212212	22 17.5	+40 10	"	"	"		22 49	00:59	B	
36608	δ Cas HD 10516	0 54.9 1970	+60 53 1970	G-16	IIaF	13/.4		01:10	01:14	C	
36609	Ø PER	01 41.7 1970	+50 33 1970	G-16	IIaF	13/.4		01:17	01:35	A	
36610	φ Per	"	"	G-12	IIa0B	13/.4	56°F	01:44	01:49	B	
36610T1	Calibration	strip wedge			IIa0B		for plates	36606, 36607, 36610			
36611	HD 7864	01 13.2	+39 25	G-12	IIa0B	13/.5		01 53	04:37	C	
36612	HD 28446	04 24.1	+53° 42	G-12	IIa0B	13/.5		04:47	05:12	A	
36612F1	focused on wire			G-12	IIa0B	13	52°F			B	

Dome Temp. 54°F 65%

Focus .....

Dome Temp. 43°F 73%

Transparency Conditions Excellent

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0h07m W	+33°24'	2"	3.4	B pe	no filter 3	Test	20/30		
0h19m W	+33°24'	2"	"	"	3	of	20/52	broken ½" missing	
0 10 E	+10 28	2"	2.7	K3 II	3	G16	20/40		
0 02 E	+10 28	2"			3	Hd.	20/20		
0 31 E	+40 14	2"	2.2	F8 Ib	3		20/20		
0 25 E	+40 14	2"	"	"	3		20/40		
01h45m W	+03 25	4	7.94	K0 III	17-17-17	Hd-Vis Bin	400/225		
02h16m W	+40 36		7.79	K2 III	17-17-17	"	400/225	Hd O B in middle of exposed Box #3	
00h01m E	+60°37		2.13	B0 III pe	no filter 3		20/50	Hd A F in exposed Box #1	
00h26m E	+50°36		4.06	B0 pe	no filter 3		20/50		
00h15m E	"		"	"	26-26		20/10		
-36612					180 sec				
03h05m W	+39°40'	5	8.26	K0 III	17-17-17	Hd Vis Bin	400/225		
00h21m W	+53°52'		5.22	B0 III	17-17-12	Bin-Spect Bin	200/100		
					8-8 no filter				

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.c4 ← * baked Sept 20 (test plates hypering)
24 ← ** baked Sept 16

Date 20/21 Sept 1972 WIER/HALL **Observer** G.I. Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36612	HD 187399	19h 44m.7	+29° 09'	G/2	IIa-0 B*	13/.5	57°F	19:02	20:08	A	0h 22W
36614	HD 183656	19 25.6	+3 14	"	IIa-0 B**	"		20:13	20:45	C	
36615	HD 195325	20h 25m.5	+10° 34'	"	"	"		20:49	21:17	B	0h 30W
36616	HD 205637	21h 31m.5	-19° 54'	"	"	"		21:21	21:37	C	0h 16E
36617	HD 209409	21 58.1	-2 38	"	"	"	57°F	21:46	22:00	A	0h 19E
36618	HD 205409	"	"	"	IIa-0 B*	"	57°F	22:03	22:10	B	
36619	"	"	"	"	IIa-0 B**	"		22:14	22:22	C	0h 12W
36620	"	"	"	"	"	"	57°F	22:24	22:34	A	0h 6W
36620T1	Cal step	wedge	180sec		IIa-0 B*						
36620T2	" "	"	"		IIa-0 B**						
36621	11 Psc	00 05m.3	+8 10	G/2	"	13/.3		23:04	23 34	B	0h 30W
36622	i Psc	23 34m.8	+5 05	"	"	13/.5		23:37	23 53	C	0h 49W

Dome Temp. 53°F / 74°4

Focus .....

Dome Temp. 48° H=93%

Transparency Conditions very good - thin cirrus
very bad seeing

Reading Time E.S.T	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1:51	A	00 03W	+29° 23'	3-4"	6.9	A0	17-17-17	G1 Shell	200/85		(GUIDING) SC. STR
2:45	C	0[illegible]30W	+3 26	"	6.1	"	17-17-17	"	200/85		(GUIDING) SC. STR
2:17	B	00 30W	+10 53	"	5.92	A0	17-17-17	"	200/90		SC. STR
2:37	C	00 16E	-19° 39'	"	4.60	B3Ve	17-17-17	"	200/90		SC. STR
3:00	A	00 19E	-2 12	"	4.54	B8Vne	17-17-17	"	200/90	H=93% outside	STRONG
[illegible]	B	00 08E	"	"	"	"	17-17-17	"	200/45	darkroom very dry	SC. STR
3:22	C	0003W	"	"	"	"	17-17-17	"	200/59		SC. STR
3:34	A	00 15W	"	"	"	"	17-17-17	"	200/72	H=91% outside	SC. STR
7:24	B	00 56E	+8° 43'	3-6"	6.15	A9s	17-17-17	Sp Bin	200/70		FINE
3:53	C	0003E	5 32	"	4.64	F7V	17-17-17	std vel	200/130	Closed - Too Wet	FINE

Date Sept 21/22 Thurs-Fri **Observer** L R - Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36623	HD 14633	02 16·7	+41 02	G12	IIa0-F	13/1.5		1:22	3:14	A
36624	HD 48279	06 57.5	+1° 49'	"	"	18/1.4	53°	3:26	4:48	C
36624 T1	Cal step	wedge	180sec			12 m	@ 68°F			
36624 F1	Focus					13				B

Done Temp.
Focus
Done Temp.

Hour Angle End

Dome Temp. 50° H=72%

Focus

Dome Temp. 42° H=75%

Transparency Conditions Partly cloudy but very clear

High winds - fast cumulus clouds N.W

300

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
$0^h\ 41^m$ W	+41 24	3"-3" (i.e very bad)	7.26	B	17-17-17	B.7 South	800/360	Full Moon	STRONG
$2^h\ 04^m$ E	+1 48	bad	8.08	B2	17-17-17	"	800/100	cloud too dense compared i.e. moist spirit but	FINE
								please overdevelop	
	in in front				8/8	no filter			GOOD

301

* baked Sept 21-22
** baked Sept 20

Date Sept 22/23 Fri-Sat **Observer** Ta - Wat **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36625	ADS 11581	18 36.8	-9 09	G12	IIa0-b*	13/1.5	56°F	19:00	19 14	A	0.24W
36626	MHα 328-116	19 55.0	+39 41	"	"	18/1.3		19:41	22:17	B	2.12W
36626T1	Cal step	wedge	180sec		"						
36627	α Lyr	18 33.6	38 41	G12	"	18/1.5		22:21	22:21	C	0.34W
36628	ADS 14526	20 56.4	+47 08	"	"	13/1.5	53°F	22:30	22:52	B	0.47W
36629		"	"	"	IIIa0-b**	"		22:56	23:02	C	
36630		"	"	"	"	"		23:03	23:11	A	0.23W
36631	ADS 546	00 33.6	+48 49	"	IIIa0-b*	"		23:26	00:46	C	0.52E
36632	BD+47 781	03 06.4	+47 43	"	"	13/1.4		00 51	03:29	A	0.37W
36633	ADS 1964	02 29.4	+36 53	"	"	13/1.5		03 37	04'21	B	0.41W
36634	HD 26965	04 10.7	-7 49	"	"	"		04:35	04:51	A	0.28W
36635	HD 44033	06 14.4	+14 42	"	"	"	48°	04:56	05:26	C	0.39W

Done Temp.
Focus
Done Temp.

Dome Temp. 48° H=72%

Focus

Dome Temp. 40° H=90%

Transparency Conditions Excellent

Reading Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
9 14	A	00 24W	−9 01	3-4	5.08	F3 III-IV	17-17-17	Wide Vis Bin	200/120		SL. STR
2 17	B	02 12W	+39 46	2-3	÷10	Em	17-17-17	Em object	800/90		FINE
2 21	C	03 46W	+38 47	5	0	A0 V	25-25	Em std	40/15		VERY STRONG
2 52	B	01 43W	+47 27	2-3	4.51	B1 IV	25-25	Wide Vis Bin	200/97	H=79% outside	VERY STRONG
3 02	C	"	"	"	"	"	25-25	"	200/45	plate tests	WEAK FE SL. STR
3 11	A	0203W			"	"	25-25	"	200/72		STRONG
0 46	C	0002E	49 14	2"	7.08	K7 III	17-17-17	"	400/360		WEAK FE FINE
2 39	A	00 09W	48 01	1-3"	8.5	G5	17-17-17	sp Bin	800/375		FINE
4 21	E	01 44W	37 14	1-2"	7.1	K3 III	17-17-17	Wide Vis Bin	400/320		FINE
4 51	A	00 28W	−7 37	2-3"	4.4	K0 V	17-17-17	LATE TYPE STAR	40/28		FINE
5 26	C	00 59W	14 43	2-3"	5.0?	K3 V	25-25	"	200/80	much fainter than 5 14	SL. WK
										PLATES ALL FOGGED	
									~1"	AT RED END	

303

* baked Sept 16
** baked Sept 27-28

Date 1972 SEPT 27/28 WED/THUR **Observer** Bln-Cb/Tn:LR **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36636	H.D. 213309	22 25.9	+48 51	C-12	IIaOb*	13/1.5	60°	19:04	22:14	A
36637	HDE 235679	21 55.0	54 01	"	IIaOb**	18/1.3	53°	22:19	01 49	B
36637 T1	Cal step	wedge	180 sec		IIaOb*					
36637 T2	" "	"	"		IIaOb**					
36638	HD 2955	00 27.3	62° 23'	"	"	13/1.5		1:58	2 02	C
36639	HD 14633	02 16.7	+41 02	"	"	13/1.5		2:13	3 53	A
36640	HD 14951	02 19.3	+10 09	"	"	"		3:58	4 36	B
36640 F1	Focus						47°			B

Dome Temp. 49° F H=65%

Transparency Conditions Excellent

Focus

bad seeing tonight

Dome Temp. 37° H=87%

saw 3 meteors tonight

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
60 05E	+49 17	4-5"	7.5	K III	17-17-17	CaII binary	400/300	seeing improving	
04 02W	+54 24	2-5"	9.21	B2	17-17	Bin Search	800/230	cloud from south	
01 42W	+62° 49'	4-7"	4.30	B0	25-25	"	240/15		
01 43W	+41 25	2"-4"	7.26	B3	17-17-17	"	400/180		
02 24W	+10 33	"	5.38	B6	17-17-17	spectra blue	200/85	cloud SE	
	min / red out				8/8	no filter		UFT sc. CENTRE TO VIOLET	

305

* baked Sept 27-28

Date 1972 Sept 28-29 Thurs-Fri Observer Jn - L/a LR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36641	HD 186791	19 41.5	+10 22	G12	IIa-O*	13/1.5	54°F	18:45	18:49	A
36642	HD 201345	21 03.9	33 00	"	"	13/1.3		18:59	20:09	B
36642T	Cal strip	edge	180sec		"					

Dome Temp. 5
Focus
Dome Temp.

Hour Angle End

Dome Temp. 52°F H=83%

Focus .....

Dome Temp. 52 H=91%

Transparency Conditions Excellent + thin haze scan

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 43 E	+10° 38′	2″	4.15	K3 II	25-25	std vel	40/27		
0044E	+33 22	2″ 4″	7.52	B0	17-17	B.m search	400/120	getting windy + wet	
								Drips on mirror – closed	
								stronger because dripping	
								extreme.	

307

2 visitor groups 1st half

* baked Sept 27-28

Dome Temp. 39
Focus
Dome Temp.

Date 1972 Sept 30-31 Sat-Sun **Observer** Tm - Wat **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36643	MHα-328-116	19 55.0	+39 41	61 2	IIa0-b*	18/1.3	49°F	21:42	23 58	A	4 24 W
36643 T	Cal step	wedge	180sec		"						
36644	HD 206778	21 39.3	+9 25	61 2	"	18/1.5		00 05	00 37	C	3 17 W

Dome Temp. 39°F H. 80%

Transparency Conditions Excellent

Focus

Dome Temp.

very slow sat from S→N 20 min from Peg to Big Dipper
Good Meteors again

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
4 24W	+39 48	3-4"	210	Em	17-17-17	Em star	800/45	cloud	
3 17W	+9 48	4-6"	3.98	K2	16 17-17-17	stdvel	200/120	cloud	

309

* baked Sept 27/28

Date 1922 Oct 2-3 Mon-Tue **Observer** T.A.-C.D. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36645	H.D. 213389	22 25.9	+48 51	G 12	IIIa J*	1 3/4	60°	18:44	21 : 14	A	9.45
36645T	cal step	wedge	180sec		"						

Dome Temp.
Focus
Dome Temp.

Dome Temp. 60° H=73% Transparency Conditions Haze & thin cloud fog later

Focus .....

Dome Temp. 55° H 93%

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0045E	+49° 17	1"-3"	7.52	K1 III	17-17 17	Ca II em bin	400/580	** rapid rise in humidity	
							**	ANSON: OVERDEVELOP PLEASE.	

311

* Baked Sept 20-21
** Baked Sept 22-23
*** Baked Sept 27-28

Date 1972 Oct 4/5 Wed/Thurs. Observer Blm-Ri Julian Day

Done Temp.
Focus
Done Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36646	Algol	03 01.7	+40°37	G-12	IIa-O	9/.9		19:06	19:32	A	
36647	"	03 01.7	+40°37	"	IIa O*	"		19:33	22:33	B	
36647T1	calibration	step wedge	for plate	36646	and 36647	IIa O*					
36647T2	calibration	step wedge	for plate	36648	and 36649	IIa O**					
36648	Algol	03 01.7	+40°37	G-12	IIa O**	9/.9		23:49	00:08	C	
36649	"	"	"	"	IIa O***	"	58°F	00:10	00:20	A	
36650	"	"	"	"	IIa O****	"		00:31	00:45	B	
36650T1	calibration	step wedge	for plate	36650-66	IIa O***						
36651	Algol	03 01.7	+40° 37	G-12	IIa O****	9/.5		00:46	01:00	C	
36652	"	"	"	"	"	9/.7		01:02	01:19	A	
36653	"	"	"	"	"	9/.9		01:20	01:29	B	
36654	"	"	"	"	"	"		01.30	01:37	C	
36655	"	"	"	"	"	"		01.38	01:51	A	
36656	"	"	"	"	"	"		01:52	02:12	B	
36657	"	"	"	"	"	"		02:13	02:19	C	
36658	"	"	"	"	"	"		02:20	02:26	A	

Dome Temp. 52° H= 86%

Transparency Conditions ...scattered clouds...

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
06 56 E	+40° 56	3	2.2 3.32	B8V	25-25	Sp. Bin-Blu	40/50		
03 54 E	"	3	"	"	25-25	"	40/45	clouds	
					180 sec.				
					180 sec.				
00 20 E	+40° 55	2	2.2 3.32	B8V	25-25	Sp. Bin Blu	40/33		
02 08 E	"		"	"	25-25	"	40/33		
01 44 E	"		"	"	25-25	"	40/25	clouds @ 00:30	
	"		"	"	180 sec	"	"		
01 29 E	"		2.2 3.12	B8V	25-25	"	80/28	clouds (Mid-Eclipse)	
01 10 E	"		"	"	25-25	"	80/34		
01 00 E	"		"	"	25-25	"	80/50		
00 52 E	"		"	"	25-25	"	80/52		
00 33 E X	"		"	"	25-25	"	80/50		
00 16 E	"	2	"	"	25-25	"	80/51		
00 09 E	"		"	"	25-25	"	80/51		
00 01 E	"		"	"	25-25	"	80/50		

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xxx Baked Sept 27-28

Done Temp.
Focus
Done Temp.

Date 1972 Oct 4/5 Wed/Thu **Observer** Bl.-Pi **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36659	Algol	03 01.7	+40° 37	G-12	IIa-O xxxx	9/.9		02:27	02:32	B	
36660	"	"	"	"	"	"		02:33	02:39	C	
36661	"	"	"	"	"	"		02:40	02:47	A	
36662	"	"	"	"	"	"		02:47	02:59	B	
36663	"	"	"	"	"	"		03:00	03:08	C	
36664	"	"	"	"	"	"		03:09	03:15	A	
36665	"	"	"	"	"	6/.9		03:16	03:20	B	
36666	"	"	"	"	"	"		03:21	03:33	C	
36666T1	calibration step wedge for plate				IIa-O	36667 - 68					
36667	Algol	03 01.7	+40° 37	G-12	IIa-O	6/.9		03:34	03:41	A	
36668	"	"	"	"	"	"		03:42	03:53	B	

Dome Temp. .....

Focus .....

Dome Temp. 49° H=92%

Transparency Conditions ..... Very Poor - Good

Closed because of high humidity. Bessie got her coat wet!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00h05W	+40°55'		2 2 3.12	B8 V	25-25	Sp. Bri-131-	50/51		
00h11W	"		"	"	25-25	"	50/50		
00 19 W	"	2	"	"	25-25	"	50/50		
00h30W	"	"	"	"	25-25	"	50/50		
00h40W	"	"	"	"	25-25	"	50/52		
00h46W	"	"	"	"	25-25	"	50/50	exposed	
00h57W	"	"	"	"	25-25	"	50/50	↑ Box #1	
01h05W	"		"	"	25-25	"	50/51		
					180 sec			exposed	
01h14W	"		2 2 3.12	B8 V	28-28	"	50/65	↓ Box #2	
01h26W	"		"	"	28-28	"	50/64		
						"			

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Date 1972 Oct 5/6 Thu Fri Observer Blu-Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36669	Algol	03 01.7	+40° 37	G-12	IIaO	6/1.9		21 59	22:04	A	04°20'E
36670	"	"	"	"	"	"		22.05	22:10	B	04°E
36671	"	"	"	"	"	"		22.13	22:18	C	04°5E
36672	"	"	"	"	"	4/1.9		22:20	22:27	A	03°5°E
36673	"	"	"	"	"	"		22:28	22:36	B	03°50E
36674	"	"	"	"	"	"		22.37	22:46	C	03°40E
36675	"	"	"	"	"	"		22.47	22:55	A	03°30E
36676	"	"	"	"	"	"		22.56	23:04	B	03°2E
36677	"	"	"	"	"	"		23:05	23:12	C	03°1E
36678	"	"	"	"	"	"	60°F	23:15	23:23	A	03°0E
36679	"	"	"	"	"	"		23.25	23:35	B	02°50E
36679T1	calibration step wedge for plates 36669-36679				IIaO						
36680	Algol	03 01.7	+40° 37	G-12	IIaO	4/1.9		23:37	23:55	C	02°4E
36681	"	"	"	"	"	"		00.46	00:53	A	01°3E
36682	"	"	"	"	"	"		00:54	01:00	B	01°25E
36683	"	"	"	"	"	"	60°F	01:02	01:08	C	01°1E

Dome Temp.
Focus
Dome Temp.

Dome Temp. 52°F 90%

Focus 20 - R

Dome Temp. .....

Transparency Conditions .....

Reading Time E.S.T	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2 09	A	04"22 E	+40° 55'	2	2·2 3·12	B8 V	35-35	Sp Bw - B1w	40/32		
2 10	B	04"14E (16 X)	"		"	"	35-35	"	40/32		
2 18	C	04"08E	"		"	-	35-35	"	40/32		
2 27	A	03"59E	"		"	"	45-45	"	40/32		
2 36	B	03"50E	"	2	"	"	45-45	"	40/32		
2 46	C	03"40E	"	1'	"	"	45-45	"	40/32		
2 55	A	03"30E	"	"	"	"	45-45	"	40/32		
3 04	B	03"21E	"	"	"	"	45-45	"	40/32		
3 2	C	03"14E	"	"	"	"	45-45	"	40/32		
3 23	A	03"02E	"	"	"	"	50-60	"	40/32		
3 35	B	02"50E	"	"	"	"	60-60	"	40/32		
							180 sec				
3 55	C	02"30E	"	1	2·2 3·12	B8 V	60-60	"	40/11	cloudy	
53	A	01"32E	"		"	"	60-60	"	40/32		
20	B	01"25E	"		"	"	60-60	"	40/32		
09	C	01"17E	"	1	"	"	60-60	"	40/32		

317

Date Jan 08 6 1972 Calif **Observer** Bla-Ri **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36684	Algol	03 01.7	+40° 37	G-12	IIaO	4/.9	60°F	01 09	01 20	A	1°05E
36685	"	"	"	"	"	"	"	01:21	01:32	B	0°54E
36686	"	"	"	"	"	"		01:38	01:48	C	0°26E
36686T1	calibration step	wedge for	plates 366	80-36689	IIaO						
36687	Algol	03 01.7	+40° 37	G-12	IIaO	4/.9		01:49	02:01	A	0°34E
36688	"	"	"	"	"	"		02:02	02:15	B	0°1 E
36689	"	"	"	"	"	"		02:16	02:28	C	0°3 E

Dome Temp.
Focus 2w
Dome Temp. 5

Dome Temp. .....
Focus 20 - 2
Dome Temp. 50° 14=95%

Transparency Conditions Great, between scattered clouds. Alt became at times hazy and [illegible]

Ending Time E.S.T	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
[illegible]	[illegible]	01h 05E	+40° 55'	1"	2 2 3·12	B8 II	60-60	Spect Bin - Blu	40/32	"	
[illegible]32	B	00h 54 E	"		"	"	60-60	"	40/32	pulled plunger 3 ways out	
[illegible]49	C	00h 36 E	"		"	"	60-60	"	40/32	"	
							150 sec.			"	
[illegible]	A	00h 24 E	"	"	"	"	60-60	"	40/32	"	
[illegible]15	B	00h 11 E	"	"	"	"	60-60	"	40/32	"	
[illegible]38	A	00h 04 W	"	"	"	"	60-60	"	40/32	"	

319

* Baked Oct 6
(kept in plastic box)

Date Sat-Sun Oct 7-8 /72 **Observer** LR-R **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36690	HD 193516	20^h $15.^m5$	$37°28'$	G-12	IIaO*	18/.4	49°F	19:29	22:19	A
36690T1	calibration stepwedge				IIaO					

Dome Temp. 4[illegible]
Focus [illegible]
Dome Temp. 3

Hour Angle End	[illegible]
[illegible]	[illegible]

Dome Temp. 40°F 73% Transparency Conditions hazy

Focus 20 - R

Dome Temp. 35°F 90% outside 96% done dripping wet so cloud up

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02h51W	+47°44'	4"	9.17	Bp	17-17-17	Bin. Search	800/198		
								POOR CONTACT W/ STEP TABLET	
								NEAR DENSE END - SPOTS BLURRED	

321

Bakul 0916

Date Sun Mon 08-9 1972 **Observer** LR-R **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36691	HD201345	21^h 03.9	33° 00′	G-12	IIaO B*	13/1.5	50°F	18:52	20:10	A
36692	HD 218195	23^h 01.1	57° 43	"	"	13/1.4		20:25	22:40	B
36693	HD 14443	02^h 14.9	56°42′	"	"	"		22:52	00:50	C
36694	HD 11291	01 45.8	+ 50° 18′	"	"	13/1.5		00.55	01.18	A
36694T1	calibration step wedge for plate 36691 -				IIaO B*					
36695	HD 14633	02 16.7	+41° 02′	"	"	13/1.5		01 26	02:50	B
36695 F1	focus test	on 02 1/2		G-12	IIaO B*	13	42°F			B

Dome Temp. 40°F 66%
Focus 20-2
Dome Temp. 34°F 80%

Transparency Conditions good with light wind

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 03E	+33° 20'	3"	7.52	B0	17-17-17	Bin. Search	800/280	V. windy	
00"30W	+58° 10'	2½-3"	8.61	B3	17-17-17	"	800/225	"	
00"36E	+57° 03'	"	8.4	B	17 17-17	"	800/225	"	
00"22W	+50° 40'	"	5.62	B9III	17-17-17	Hd-Spect. Bi	400/150		
					150 sec				
01"21W	+41° 23'	2-3"	7.26	B	17-7-17	Bi. Search	800/280	clouds from NW	
					8-8 no filter			→ V. OCCET	
								cloud up at 04:10	

Dome Temp. 40°F 66%
Focus 20-2
Dome Temp. 34°F 80%

Transparency Conditions good with light wind

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00 03E	+33° 20'	3"	7.52	B0	17-17-17	Bin. Search	800/280	V. windy	
00"30W	+58° 10'	2½-3"	8.61	B3	17-17-17	"	800/225	"	
00"36E	+57° 03'	"	8.4	B	17 17-17	"	800/225	"	
00"22W	+50° 40'	"	5.62	B9III	17-17-17	Hd-Spect. Bi	400/150		
					150 sec				
01"21W	+41° 23'	2-3"	7.26	B	17-7-17	Bi. Search	800/280	clouds from NW	
					8-8 no filter			→ V. OCCET	
								cloud up at 04:10	

323

Baked 0.96 (16 Hrs)

Date Mon-Tues Oct 9-10, 1972 Observer Hu-R Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36696	HD 171767	18 31.5	+04 52	G12	IIa 0 3*	13/.5	44°F	18 35	20:40	A
36697	HD 11291	01 45.8	+50 18	"	"	"		20 53	21:37	B
36698	HD 3531	00 33.2	46 25	"	"	"		22 57	00:11	C
36699	HD 9546	01 28.6	+62° 34'	"	"	"		00:22	01:44	A
36699T1	calibration step wedge for plate	36696 -			IIa 0 B*					
36700	HD 11092	01 44.0	+64° 22	G-12	IIa 0 3*	13/.5	40°f	01 48	03:34	B
36701	HD 21449	03 22.4	+39° 51	"	"	"		03 42	05:35	C
36702	HD 11291	01 45.8	50 18	"	"	"		05 40	05:50	A
					HD 11291 = BD +50 217					

Dome Temp. 3
Focus 2.0
Dome Temp. 2

Dome Temp. 34° 60%

Focus 20-R

Dome Temp. 27°F 63%

Transparency Conditions good, scattered clouds first half

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20:40	A	03"02W	+05°00	3	7.39	K0III	17-17-17	Hd Vis Bin	400/175		
21:37	B	03"15E	+50°43		5.62	B9III	17-17-17	Hd Spec Bin	400/150	cloudy	
00:11	C	00 32W	+46°52'	2-3	7.62	K0III	17-17-17	Hd Vis Bin	400/175		
01:44	D	01"09W	62 59	2	7.79	K0III	17-17-17	"	400/175		
							180 sec				
02:34	E	02"42W	+64°46'		8.12	K5Ia-b/Ib	17-17-17	"	400/175		
03:35	F	03"06W	+40°07		8.40	K3III	17-17-17	"	400/175		
04:50	G	05"00W	+51°53'		5.62	B9III	17-35	Hd Spec Bin	400/52	Not a B9 III spectrum. Also note diff. in decl. — Is this a * ? Could be HD 11151 at α(1900)=1h 44.6 δ(1900)=+51°49'; Sp=F5; m=6.32	

328

*Baked 0916 16h.
** " 0910 "

Date Tues Oct 10-9/72 Observer Hd Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
36703	HD 186547	19 39.9	+13 04	G12	IIaO B*	13/.5		19 10	19 40	A
36704	14 HD 112291	01 45.8	+50 18	"	"	"	44F	19 48	20 12	B
36705	HD 213388	22 25.9	+51 54	"	"	13/.3		20 20	21 16	C
36706	HD 190658	20 00.9	+15 13	"	"	13/.5		21 24	22 43	A
36707	14 HD 112291	01 45.8	+50 18	"	"	13/.5		22 55	23:16	B

Dome Temp. 3
Focus 21
Dome Temp. 3

Hour Angle End

Dome Temp. 32°F 71%

Focus 20-R

Dome Temp. 30°F 82%

Transparency Conditions Some clouds

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
11 40	A	W 58m	+14° 47	3"	6.1	B3 IV	17-17-17	401 SB	400/150		
20 12	R	E 4 36	+50°43'	3"	5.6	B9 III	17-17-17	"	400/152		
21 16	C	E 11m	+52 19	3"	7.4	G8 III	17-17-17	Hd Vis bin	400/146		
21 6	T	W 3 45	+15 30.	3"	6.3	M2 III	17-17-17	Hd SB	400/171	Clouds	
23 10	S	01h 32 E	+50 43'		5.6	B9 III	17-A-17	"	400/152	"	

227

2 visitor tours

* baked Oct 10

Date Sat-Sun Oct 14-15/72 **Observer** Tm - Wat **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
36708	HD 3627			612	IIaO6*	13/.5	39°F	21:40	21:58	A
36709	HD 12533			"	"	"	"	22 18	22:26	B
36709 T1	Cal step	wedge	180sec		IIaO6*					

Dome Temp. 39
Focus 2[illegible]
Dome Temp. 1[illegible]

Hour Angle End	D[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

Dome Temp. 39° H=66%

Focus 20-R

Dome Temp. 38° H=90%

Transparency Conditions Scattered clouds windy
Sudden rain

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1 22E	+30 46	3-6	K3		15-15-15		200/120	marked X	FINE
2 20E		"	K0		22-22	"	200/120	" X2	FINE
					marked X			closed due to rapid	
								Humidity rise, sudden	
								rain, solid cloud etc	
								were very lucky as	
								far as the suprise rain	
								storm. (no water on mirror)	

329

baked Oct 10

Date Tues: Wed Oct 17-18 / 72 **Observer** Tn-Hd / Hu-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36710	HD 171767	18 31.5	+4 52	G12	IIIa-J+	13/.4		18:52	20:26	A
36711	HD 190655	20 00.9	+15 13	"	"	13/.4		20:38	22 24	B
36712	HD 11291	01 45.8	+50 18	"	"	13/.5	34F	22:42	23 08	C
36713	ϕ Per	1972 1 46.9	1972 +50 33	"	"	13/.7		23 12	23 18	B
36714	HD 3531	0 33.2	+46 25	"	"	13/.3		23 26	01 04	C
36714T1	Cal step wedge				"	flat	36710 - 36714			
36715	HD 11926	01 52.0	+40 54	G12	"	13/.3		01:08	02:08	A
								02:38	03:08	

Dome Temp. 37
Focus 20 -
Dome Temp. 28

Hour Angle End	D
3 20W	+4
3 49W	+15
3 14	+5
3 55W	+5
3 16W	+4
0 29W	

Dome Temp. 31° H=79%

Focus 20-R

Dome Temp. 23° H=75%

Transparency Conditions Excellent some cloud

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3 20W	+4° 59'	4-5"	7.39	K0 III	15-15-15	Vis Bin - Hd	800/250	Started wrong star; Field drawn	FINE
3 48W	+15 31	"	6.34	M2 III	15-15-15	SB	800/200	Fld drawn	V.SL.WK
E 1 14	+50 43	"	5.62	B9 III	15-15-15	Spkg - Hd	400/150		SL.STR
E 55m	+50 36	3"-4"	4.2	Bop	22-22	Hd SB	200/100		STRONG
0155W	+46 51	2"-3"	7.62	K0 III	15-15-15	Fld Vis Bin	800/260		FINE
	41 23	2"-5"	8.22	G5 V	15-15-15	Vis Bin - Hd	800/100	cloud / cut short / overexp	FINE
0248W								12m @ G5 V	
								TRY TO GET A FOCUS PLATE NEXT CLEAR NIGHT	

231

* Oct 10 Baked

Date Wed Thurs Oct 18-19/22 **Observer** GH-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36716	Tr 2-1	2h 30.2	+55°32	GH3	IIaO-b*	13/.5	36°F	23:09	0:25	A
36717	Tr 2-4	"	"	"	"	"		0:30	1:15	B
36717T1	Cal step	wedge	for 36716		"					
36717F1	Focus	plate		G12	"	13	34			F
36717T2	Cal step	wedge	for 36717							
36718	Tr 2-3	2h 30.2	+55°32	GH3	"	13/.5	33°	03:02	03:54	C
36719	Tr 2-2	"	"	"	"	"		03:58	05:06	A
36720	HD20365	3h 11.5	+49°51	"	"	"		05 18	05:19	B
				"	"	"				C

Done Temp. 28°
Focus ... 20
Done Temp. 22

Hour Angle End	
2:36	
3:10 W	
12:54 W	
13:40 W	
10:55 W	

Dome Temp. 29° - 80% Transparency Conditions clear - Aurora all night

Focus 20 - 2

Dome Temp. 22 - 90% Checked Cyg x-3, still nothing, PLEASE GET A FOCUS PLATE

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0:36E	+55°51'	2-3"	9.2	(K-M)	3-3-3	GH Cluster	800/127		SL. WEAK
0:10W		"	7.7	(B)	3-3-3	"	800/45	cloud shows, overdeveloped	SL. WK (GUIDING) CENTRE FOG VIOLET
						no filter			
						.12 m	@ CSPE		
02:54W	55 52	1-3"	8.7	(B)	3-3-3	GH Cluster	800/70	Fantastic images	FINE
04:05W	55 53	"	8.8	(B)	3-3-3	"	800/70		FINE
03:37W	50 11	"	5.1	B3	3-3-3	Std Vel	200/18	Fld drown	(GUIDING) SL. STR
						"			

333 Ast 100 class, looked at M2

*baked Oct 18-19

Date Thurs-Fri Oct 19 20/72 **Observer** LR-Tn / Hu-Tn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36721	HD 180163	19h 10.4	38 58	G12	IIa O-b*	13/.5	37°F	18:07	18:09	A
36722	HD 201345	21h 03.9	33 00	"	"	"		18:18	19 24	B
36723	HD 194280	20 19.1	38 37	"	"	13/.3		20:46	22 50	B
36724	HD 218195	23 01.0	57 43	"	"	"		22:55	00 39	C
36724 T1	Cal step	wedge	180 sec		"					
36725	HD 11092	01 44.0	+64 22	"	"	13/.3		00 45	02 05	B
36726	HD 11291	01 45.8	+50. 18	"	"	"		02 11	02 27	C
36727	HD 37171	05 31.5	+10 58	"	"	"		02 32	03 28	A
36727 F1	Focus			"	"	13	32°F			E

Dome Temp. 33°F H=45%

Focus 20-R

Dome Temp. 20° H=81%

Transparency Conditions Excellent

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0 33W	+39° 09	1"-2"	4·3	B5	45	B5 std vel	40/13		(GUIDING) SL. STR
0 06E	+33 21	"	7.52	B0	17-17-10	Bin Search	400/140		SL. STR
4 05W	+38° 57'	"	9.15	B	15-15-15	"	800/195		(GUIDING) FINE
3 12W	+58 09	"	8.61	B3	15-25?	"	800/175	must be fainter than E.6	SL. STR
0 52W	+64 47	1"-2"	8.12	K6Ia-a IL	15-15-15	Hd Vis Bin	800/245		(GUIDING) FINE
2 14W	56 43	2-3	5.62	B9III	15-15-15	Hd S.B.	200/65		SL. STR
0 30E	+11 06	1-2"	5.98	K2III	15-15-15	Hd S.B.	200/100	cloud	(GUIDING) SL. WK CENTRE TO VIOLET
					7/7	not Het			
						FOCUS CHANGED FROM 20 R			
						TO 25-R 20 OUT			

335

#baked Oct 18-19

Date Fri-Sat Oct 20-21/72 **Observer** Wi-Tn/ **Julian Day** (error (who left slit at 18?))

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End	D
36728	HD 180163	19 10.4	38 58	G12	IIaO-b*	18/.5	40°F	18:12	18:14	A	0 42W	3
36729	HD 186791	19 41.5	+10 22	"	"	13/.5		18:22	18:26	B	0 21W	1
36730	HD 206874	21h 39m.9	+28° 20'	"	"	13/.5		19:01	20:03	C	0 00	2
36731	λ Cyg HD198183	20h 43m.31	+36 07	"	"	13/.5		20:43	20:53	A	1 47W	3
36732	58° Cyg	20 56.1	+41 03	"	"	"		21:04	21:14	B	1 59W	4
36732T1	Cal step	wedge	for 36728-32	"			40°F					
36733	HD 213534	22 26.9	29 02	G12	IIaO	13/.5		21 40	22:34	B	1 44W	2
36734	HD 4502	00 42.0	+23 43	G16	IIaF	13/.5		22 54	23:16	A	0 11W	2
36735	HD 4502	00 42.0	+23 43	G16	IIaF	13/.5	39°F	23.18	23:46	B	1 43W	
36735T1	Cal step	wedge	for 36733		IIaO							

Dome Temp. 40
Focus 75
Dome Temp.

29°F H=63% inside

Dome Temp. 40° H=45% outside

Focus 75-R

Dome Temp. .....

Transparency Conditions Excellent but haze 5000m some thin cloud

336

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0 42W	39 09	1"	4·3	B5	45	B std vel	40/12		SL. STR
0 21W	10 38	1½-2"	4·15	K3 II	20-25	std vel	40/20		FINE
0 00	28 43	1"	6·9	A9-A9	15-15-15	Spl:-Bln	200/70		FINE
1 47W	36 28	1"	4·42	B5V	15-15-15	"	200/70	some cloud	~~SL~~ STRONG
1 58W	41 07	"	3·96	A0V	15-15-15	"	200/70		SL. STR
1 44W	29 26	1"	6·28	A5	17-17-17	Spl:-Bln	400/200		(GUIDING) FINE
0 11W	24 11	1"-2"	5·18	M1 II	no filter 3-3	Cal Em	200/150		FINE
0 43W	"	"	5·18	K1 II	no filter 3--	"	200/032	cloud	VERY WEAK
				23 of 72		9.0 mm @ 68°F		in mm Hg	

337 G-16 removed. Was left uncovered in spectrograph. Other gratings also left out where box got wet and it was destroyed. 24/10/72

Date 6/6 IN **Observer** **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.

Done Temp.
Focus 73
Done Temp.

Hour Angle End	D

Dome Temp. .....

Focus 75-R

Dome Temp. .....

Transparency Conditions .....

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality

3391

* baked Oct 20-22

Dome Temp. 37
Focus 75
Dome Temp.

Date 25/26 Oct 1972 WED/THURS **Observer** GL-RI / **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36736	HD 195358	$20^h 25^m.7$	+19° 05'	G12	IIa-0B*	13/.5	42°F	18:26	19:14	A	
36737	HD 201933	21 06.4	+45° 06	G-12	IIa 0B*	13/.5		19:20	19:54	B	
36738	HD 204860	$21^h 26^m.3$	+45° 04'	G-12	IIa 0B*	13/.5		20:00	20:58	A	
36739	HD 217050	$22^h 52^m.7$	+48° 09'	"	"	"		21.03	21:28	B	
36740	HD 217675	22 23 57.3 *	+41° 42'	"	"	"	40°F	21:30	21:40	A	40 sec
36741	HD 6811	$01^h 03^m.7$	+46° 43'	"	"	"	"	21:49	21:58	B	
36741	calibrat step wedge				9 min @ cf 9°F/min.				2 coat +2		

Dome Temp. 32° F / 71% H

Focus 75-R

Dome Temp. .....

Transparency Conditions .....

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		$0^h 45^m$ W	+19° 25'	3"	6.57	B9	17-17-17	G1 Shell	400/140		SC-STR
		$0^h 46^m$ W	+45° 28'	2"-4"	6.5	—	17-17-17	"	400/140		SC-STR
		$01^h 30^m$ W	+45° 28'	2"	6.8	B5	17-17-17	"	400/140		SC-STR
		$00^h 28^m$ N	+48° 35'	1"	5.03	B3	17-17-17	"	400/140		STRONG
		~~00 40~~ 40 W	+42° 13'	1"	3.51	B5 H_2O	26-26	"	40/11	cirrus * Solar Cor. probably (1982 Tn)	SC-STR
		$01^h 09^m$ E	+47° 08'	1"	4.2	-	26	"	40/11	"	SC-STR
										clouded out	

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Baked ON 21-22
" " 26

Date 26/7 OCT /72 Observer LR. Ba./du-Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36742	HD193516	20h15m5	+37°28	G12	IIIaO B^{x}	18/.3	48°F	18:22	20:47	A	
36743	HD235677	21 55.0	+54 01	G12	IIaO B^{xx}	18/.3		21:04	00:00	B	
36743T1	cal. step wedge				IIaO B^{x}						
36743T2	cal. step wedge				IIaO B^{xx}						
36744	HD 9546	01 28.6	62 34	"	"	18/.3		00:06	01:36	A	
36745	HD 21449	03 22.4	+39 51	"	"	"		01:49	04:05	B	
36745T1	focus test wedge			"	IIaO B^{xx}	13	43			B	

Dome Temp. 38°F 88%
Focus 75-12
Dome Temp. 35°F 95%

Transparency Conditions hazy + thin clouds

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		0h 34m W	+35° 45'		9.17	B0.IVp	15-15-15	Bin Search	800/174	some kid grabbed spectrograph	FINE
		04h 07m E	+54 24	1-2"	9.21	B2.5Vb	15-30	"	800/88	good seeing but thin patchy clouds - 24 pts in 1st hr. Overdevelope please!	FINE
				12 m	@ 65° F	in new P-2					
				9.0 m	@ 62° F	in new P-2					
		0h 28m W	+62° 59'	1-2"	7.79	K0III	15-15-15	Hd Vis Bin	800/250		FINE
		3h 45m W	+40° 08'		9.40	K2III	15-15-15	"	800/250	Broken two pieces	BROKEN FINE
							7-7	no filter		cloud up due to high humidity	SL. CENTRE TO RED

PRIMARY ALUMINIZED
OCT. 30-31 lost 1 clear night

343

+ baked Oct 26

Date Nov 6/7 1972 Observer Hu-Tu/ Julian Day

Done Temp.
Focus
Done Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36746	HD 211153	22 10.1	+22 02	G12	IIaO*	13/3		17:49	18:45	A	OG 45E
36747	HD 211419	22 11.8	+33 14	"	"	"	43°F	18:48	20:36	B	OG 57W
36747 T1	Col step	wedge	180 sec		"						
36747 F1	Focus test			G12	"	13	43°F				

Dome Temp. 40°F H= 76%

Focus 75-R

Dome Temp. 36° 93%

Transparency Conditions Haze, thin cloud

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19 45	A	00 42E	+22 29	2"	7.69	G5 III	15-15-15	Vis Bin - Hd	800/250	fld drawn	Fine
2:36	B	00 57W	+33 40	"	7.74	F8 V	15-15-15	Vis Bin - Hd	800/165		Fine
		↑ Wrong									
		1 08W	in in / out out				7/7	no filter		Fog starting. Too humid	vsl center toied

Ending Time E.S.T. P.H.

345

Baked 0930 16

Date Thurs Nov 16 1972 Observer G.I.-R./ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
36748	HD 179343	19 07.0	+02° 27	G-12	IIa-O B	13/15	34°F	17 :39	19 :37	A	
36749	HD 218393	23 02.6	+49° 40'	G-12	IIa-O B	13/15		19: 45	20: 43	B	
36750	HD 220300	23 17.6	+55° 49'	G-12	IIa-O B	13/15	32°F	20: 53	21 30	A	
36750T1	cal. step wedge for plates 36748-36750				IIa-O B						
36750F1	focus test on Mn i			G-12	IIa-O B	13	32°F			B	

Dome Temp. 25°F 75%

Focus 75-R

Dome Temp. 22°F 80%

Transparency Conditions clear but hazy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
03h 33m W	+020 40'	4"	7.1	B9	17-17-17	G1 Shell	400/115		FINE
11h 04m W	+50° 05'	2"	6.99	A5D	17-17-17	"	400/120		GOIDING FING
01h 35m W	+56° 15'		7.8	B8	17-34	"	400/19		WEAK
9.0mi @ 68°F in M.W.P. 2				Nov 16/72 180 exp.					
					8-8	filter		clouded over	V. SL C. TORED

3C47

Ishtar 0226

Date Sat Sun Nov 18-19 1972 Observer Wasserburg Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36751	HD216916	22 51.9	+41° 04'	G-12	IIaO B	13/.5	37°F	19: 32	19.46	A
36752	HD 895	00 08.2	+26° 25	G-12	IIaO B	13/.5		19: 53	20: 43	B
36752T1	cal. slop wedge for plates 51-52									

Dome Temp.
Focus
Dome Temp.

Hour Angle End

3c18

Dome Temp. 29°F 82%

Focus 75-R

Dome Temp. 28° 80%

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0H27W	+41° 31'	3	5.5	B2V	17+15-11	Waterloo	2m0/60		SL. STR (GUIDING) FINE
0H05W	+26°55'		6.72	F5	15-15-11	"	4m0/175		
9m.	@ 68°F	a-	Thu	19	1972	150 ex.			

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B = 0926

Date Mon - Tues Nov 20-21 1972 **Observer** Hu-R. / Bu-R. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36753	HD 198604	20 46.5	+49° 45'	G-12	IIaO B	13/.3	35°F	17 :40	18:40	A
36754	HD 11926	01 52.0	+40 54	"	"	"		22 ; 41	23:51	B
36755	HD 11291	01 45.8	+50 18	"	"	"		23 ; 53	00:03	C
36755T1	calib step	wedge for plates 36754-55			IIaO3					9mu
36756	UU Psc	00 09.8	+ 8 16	"	IIaO	"		00:06	00:47	B
36757	63 And	02 14.4	+39 1/2	"	"	9/.5		00:52	01:30	C
36758	X Per	03 49.1	+30° 1/2'	"	"	13/.5		01:28	02:00	A
36759	ζ Per	03 51.7	+39° 43	"	"	9/.5		02:03	02.06	B
36760	ξ Per	03 52.5	+35 30	"	"	9/.5		02.09	02 :5	C
36761	ξ Tau	03 21.8	+09° 23"	"	"	9/.5		02.17	02:20	A
36762	HD 28052 7 Tau	04 20.6	+15° 23	"	"	9/.5		02.07	02:13	B
36763	HD 28363	04 23.3	+15° 57	"	"	9/.3		02:47	04:47	C
36763T1	cal Blue wedge	for plates 36756-36767							9mu	
36764	HD 74280	08 38.0	+ 3 1/2	"	"	9/.5		04:50	04:58	A
36765	HD 77309	08 56.7	+54 41	"	"	"		05:01	05:35	B
36766	HD 73262	08 32.7	+6 03	"	"	"		05:39	05:57	C

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 27°F - 76%

Focus 75-R

Dome Temp. .....

Transparency Conditions good
clouds from 18:30 - 22:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01h35W	+50°05'	3"	8.13	M2III/II	15-15-15	Mod-Vis Bin.	800/150	Scattered clouds BROKEN 12 min.	BROKEN SL WEAK
01h37W	+41°20'	"	8.22	G6V	15-15-15	"	800/200	clouds again by 23:00 clear 00.00	FINE
01h55W	+50°14'		5.62	G9III	15-15-15	"	200/50		FINE
MWP-2 @ 68°F Nov 21 1972					180 sec				
04h18W	+05°45'	6-8	6.15	A9s	17-17-17	Sp. Bin - Bln	200/65		FINE
02h18W	+50°05'	4-6	5.44	Ap Si	20-20-20	"	200/100		FINE
01h50W	+31°00'		6.0-6.6	Ope	17-17-17	X-ray Source	400/180		FINE
03h14W	+40°00		2.71	B0.5V	20-40	Sp Bin - Bln	40/15		SL STR.
03h12W	+35°47		4.04	O7	30-30	"	40/15		FINE
38 03h17W	+09°44'		3.66	B8p	30-30	"	40/18		FINE
03h03W	-15°40'		4.63	F0II	30-30	"	40/25		FINE
04h02W	+16°11'		7.14	F8	20-20-20	"	400/151		FINE
MWP-2 @ 68°F Nov 21 1972					180 sec.				
00 03E	+030°34'	6-10	4.10	B5V	20-40	"	40/16		FINE
00h16W	+54°25'		5.67	A2m	20-20-20	"	200/100		FINE
00h57W	+05°52'		4.14	A3V	20-20	"	200/80		FINE

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Date Tues Nov 21 1972 (Coast) Observer Bln - Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36767	HD97504	10 00.3	-120° 35'	G-12	IIa O	9/7		05:54	06:15	H

Done Temp. [illegible]
Focus [illegible]
Done Temp.

Hour Angle End
[illegible]

Dome Temp. 18°F 70%

Focus 75-IR

Dome Temp. .....

Transparency Conditions Excellent- Clouds coming 352 @ dawn

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0645	K	00°05E	-12°51		4.51	BRJ	20-20-20	Sp. Bi-Bk	20/120		FINE

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* baked Nov 20/72

Date 22/23 Nov. 1972 Wed/Thurs Observer Blu-Tu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
36768	UU Psc	00 09.8	+8 16	G-12	IIa-O*	13/3		17:40	17:58	A
36769	"	"	"	"	"	"		18:00	18:18	B
36769½	Cal. Std.	edge			"	18				

Done Temp.
Focus
Done Temp.

Hour Angle End

Dome Temp. 19° H=68%

Focus 75-R

Dome Temp. .....

Transparency Conditions ..... good ..... 50 ..... 6 .....

Ending Time E.S.T	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
		2 25 E	+8 41	1-6"	6.15	A9a	15-15-15	Sp. Bin-Blu	400/90		Fine
		2 05 E	"		"	"	15-15-15	"	400/90	Snow	Fine

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Date..... Observer..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.

Ending Time E.S.T.

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